

LEXANTM COPOLYMER XHT1171

REGION ASIA

DESCRIPTION

XHT1171 is an 85 MVR high flow, high heat polycarbonate copolymer enabling high aesthetics, thin wall and complex designs. It is available in a range of opaque colors.

TYPICAL PROPERTY VALUES

Revision 20231130

PROPERTIES TYPICAL VALUES WITS RESTMETHOOS MECHANICAL ¹⁹ ************************************				
Tensile Stress, Ivit, Type I, 50 mm/min 70 MFa ASIM D638 Tensile Strain, Jvit, Type I, 50 mm/min 7 8 ASIM D638 Tensile Strain, Jvit, Type I, 50 mm/min 25 8 ASIM D638 Tensile Strain, Jvit, Type I, 50 mm/min 250 MPa ASIM D638 Tensile Strain, Jvit, Type I, 50 mm/min 260 MPa ASIM D638 Flexural Modulus, 13 mm/min, 50 mm span 2600 MPa ASIM D790 Tensile Strain, Jvit, Type I, 50 mm/min 2600 MPa ASIM D790 Tensile Strain, Jvit Tyme, 150 mm/min 2600 MPa ASIM D790 Tensile Strain, Jvit Tyme, 150 mm/min 7 S 50 527 Tensile Strain, Jvit Tyme, 150 mm/min 7 S 50 527 Tensile Strain, Jvit Tyme, 150 mm/min 7 S 50 527 Tensile Strain, Jvit Tyme, 150 mm/min 7 S 50 527 Tensile Strain, Jvit Tyme, 150 mm/min 7 S 50 527 Tensile Strain, Jvit Tyme, 150 mm/min 7 S 50 527 Tensile Strain, Jvit Tyme, 150 mm/min <t< th=""><th>PROPERTIES</th><th>TYPICAL VALUES</th><th>UNITS</th><th>TEST METHODS</th></t<>	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Stress, brk, Type I, 50 mm/min 60 MFB ASTM D638 Tensile Strain, Juk, Type I, 50 mm/min 7 % ASTM D638 Tensile Modulus, 50 mm/min 2450 MBa ASTM D638 Flexural Stress, Jul, 1.3 mm/min, 50 mm span 110 MFa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2600 MFa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 60 MFa S0 527 Tensile Stress, Jul, 50 mm/min 60 MFa S0 527 Tensile Stress, John Mm/min 7 8 S0 527 Tensile Stress, Jul, 20 mm/min 7 8 S0 527 Tensile Stress, Jul, 20 mm/min 7 8 S0 527 Tensile Stress, Jul, 20 mm/min 105 MFa S0 178 Flexural Stress, Jul, 20 mm/min 105 MFa S0 178 Flexural Stress, Jul, 20 mm/min 105 MFa S0 178 Flexural Stress, Jul, 20 mm/min 105 MFa S0 178 Flexural Stress, Jul, 20 mm/min 105 MFa S0 178	MECHANICAL (1)			
Tensile Strain, yld. Type I, 50 mm/min 7 % ASTM 0638 Tensile Strain, brk, Type I, 50 mm/min 255 % ASTM 0638 Tensile Strain, brk, Type I, 50 mm/min 2450 MPa ASTM 0638 Tensile Modulus, 50 mm/min 2450 MPa ASTM 0790 Elexural Modulus, 1.3 mm/min, 50 mm span 2600 MPa ASTM 0790 Tensile Stress, yleid, 50 mm/min 70 MPa S0 527 Tensile Stress, Denak, 50 mm/min 7 8 S0 527 Tensile Strain, break, 50 mm/min 255 % S0 527 Tensile Modulus, 1 mm/min 2400 MPa S0 527 Tensile Modulus, 2 mm/min 105 MPa S0 527 Tensile Modulus, 2 mm/min 2400 MPa S0 178 Tensile Strain, break, 50 mm/min 105 MPa S0 178 Tensile Strain, break, 50 mm/min 2400 MPa S0 178 Tensile Strain, break, 50 mm/min 105 MPa S0 178 Tensile Strain, break, 50 mm/min 105 MPa S0 178	Tensile Stress, yld, Type I, 50 mm/min	70	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min >25 % ASTM D638 Tensile Modulus, 50 mm/min 2450 MPa ASTM D638 Flexural Modulus, 13 mm/min, 50 mm span 110 MPa ASTM D790 Elexural Modulus, 13 mm/min, 50 mm span 2600 MPa ASTM D790 Tensile Stress, break, 50 mm/min 60 MPa ISO 527 Tensile Stress, break, 50 mm/min 25 % ISO 527 Tensile Strain, break, 50 mm/min 255 % ISO 527 Tensile Indudulus, 1 mm/min 255 % ISO 527 Tensile Strain, break, 50 mm/min 250 MPa ISO 527 Tensile Indudulus, 1 mm/min 255 % ISO 527 Tensile Strain, break, 50 mm/min 105 MPa ISO 527 Tensile Strain, break, 50 mm/min 250 MPa ISO 527 Tensile Strain, break, 50 mm/min 105 MPa ISO 527 Tensile Strain, break, 50 mm/min 250 MPa ISO 527 Tensile Strain, yeld, 50 mm/min 105 MPa ISO 129	Tensile Stress, brk, Type I, 50 mm/min	60	MPa	ASTM D638
Tensile Modulus, 90 mm/min 2450 MPa ASTM D638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 110 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2600 MPa ASTM D790 Tensile Stress, yeld, 50 mm/min 60 MPa ISO 527 Tensile Stress, break, 50 mm/min 7 % ISO 527 Tensile Stresh, break, 50 mm/min 25 % ISO 527 Tensile Stresh, break, 50 mm/min 7 % ISO 527 Tensile Strain, break, 50 mm/min 250 MPa ISO 527 Tensile Strain, break, 50 mm/min 105 MPa ISO 178 Flexural Stress, yeldd, 2 mm/min 105 MPa ISO 178 Flexural Modulus, 2 mm/min 105 MPa ISO 178 Ball Indentation Hardness, H358/30 145 MPa ISO 2093-1 Hardness, Rockwell R NB J/m ASTM D4812 Izod Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C NB J/m ASTM D256	Tensile Strain, yld, Type I, 50 mm/min	7	%	ASTM D638
Flexural Stress, yield, 1.3 mm/min, 50 mm span 110 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2600 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 70 MPa SCS 27 Tensile Stress, break, 50 mm/min 7 % SCO 527 Tensile Strain, yield, 50 mm/min 755 % SCO 527 Tensile Strain, break, 50 mm/min 2400 MPa SCO 527 Flexural Modulus, 1 mm/min 255 % SCO 178 Flexural Modulus, 2 mm/min 2400 MPa SCO 178 Ball Indentation Hardness, H358/30 145 MPa SCO 209-1 Hardness, Rockwell R 15 MPa SCO 209-2 Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C 80 J/m ASTM D4812 Izod Impact, unnotched 80°10°3 -23°C 80 J/m² ASIM D256 Izod Impact, unnotched 80°10°3 -23°C NB J/m² SO 180/14 Izod Impact, unnotched 80°10°3 -23°C 9 J/m² SO 180/14 <	Tensile Strain, brk, Type I, 50 mm/min	>25	%	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span 2600 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 70 MPa ISO 527 Tensile Stress, break, 50 mm/min 60 MPa ISO 527 Tensile Strain, break, 50 mm/min 7 8 ISO 527 Tensile Strain, break, 50 mm/min 2400 MPa ISO 527 Flexural Stress, yield, 2 mm/min 2400 MPa ISO 178 Flexural Modulus, 2 mm/min 2350 MPa ISO 178 Ball Indentation Hardness, B1358/30 145 MPa ISO 2039-1 Hardness, Rockwell R 125 J/m ASTM D4812 Hardness, Rockwell R 1/m ASTM D4812 Izod Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C NB J/m ASTM D256 Izod Impact, notched, 30°C NB J/m ASTM D256 Izod Impact, notched 80°10°3 -23°C NB J/m ASTM D256 Izod Impact, notched 80°10°3 -23°C NB J/m S0 180/1U Izod Impact, notch	Tensile Modulus, 50 mm/min	2450	MPa	ASTM D638
Tensile Stress, yield, 50 mm/min 70 MPa ISO 527 Tensile Strain, yield, 50 mm/min 7 % ISO 527 Tensile Strain, yield, 50 mm/min 755 % ISO 527 Tensile Strain, jvield, 50 mm/min 255 % ISO 527 Tensile Modulus, 1 mm/min 2400 MPa ISO 127 Flexural Stress, yield, 2 mm/min 105 MPa ISO 178 Flexural Modulus, 2 mm/min 2350 MPa ISO 178 Ball Indentation Hardness, H358/30 145 MPa ISO 2039-1 Hardness, Rockwell R 125 J/m ASTM D4812 Brood Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C NB J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB J/m ISO 180/14	Flexural Stress, yld, 1.3 mm/min, 50 mm span	110	MPa	ASTM D790
Tensile Stress, break, 50 mm/min 60 MPa ISO 527 Tensile Strain, yield, 50 mm/min 7 % SD 527 Tensile Strain, break, 50 mm/min >55 % ISO 527 Tensile Modulus, 1 mm/min 2400 MPa ISO 527 Flexural Modulus, 2 mm/min 105 MPa ISO 178 Ball Indentation Hardness, H358/30 145 MPa ISO 2039-1 Hardness, Rockwell R 125 " ISO 2039-2 Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C NB J/m ASTM D4812 Izod Impact, notched, 30°C NB J/m ASTM D4812 Izod Impact, unnotched 80°10°3 +23°C NB J/m ASTM D4812 Izod Impact, unnotched 80°10°3 +23°C NB J/m² ASTM D4810 Izod Impact, unotched 80°10°3 +32°C NB J/m² ASTM D4810 Izod Impact, notched 80°10°3 +23°C NB J/m² ISO 180/14 Izod Impact, notched 80°10°3 +30°C S J/m² ISO 180/14	Flexural Modulus, 1.3 mm/min, 50 mm span	2600	MPa	ASTM D790
Tensile Strain, yield, 50 mm/min 7 % ISO 527 Tensile Strain, break, 50 mm/min >55 % ISO 527 Tensile Modulus, 1 mm/min 2400 MPa ISO 527 Flexural Stress, yield, 2 mm/min 105 MPa ISO 178 Flexural Modulus, 2 mm/min 2350 MPa ISO 2039-1 Ball Indentation Hardness, H358/30 125 ~ ISO 2039-2 Hardness, Rockwell R 125 ~ ISO 2039-2 IMPACT (¹) V V ISO 2039-2 Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C NB J/m ASTM D256 Izod Impact, unnotched, 30°C 75 J/m ASTM D256 Izod Impact, unnotched 80°10°3 -23°C NB I/m² ISO 180/1U Izod Impact, unnotched 80°10°3 -23°C NB I/m² ISO 180/1U Izod Impact, unnotched 80°10°3 -23°C NB I/m² ISO 180/1U Izod Impact, unnotched 80°10°3 -23°C NB I/m² ISO 180/1U Izod Impac	Tensile Stress, yield, 50 mm/min	70	MPa	ISO 527
Tensile Strain, break, 50 mm/min >555 % SO 527 Tensile Modulus, 1 mm/min 2400 MPa ISO 527 Flexural Stress, yield, 2 mm/min 105 MPa ISO 178 Flexural Modulus, 2 mm/min 2350 MPa ISO 178 Ball Indentation Hardness, H358/30 145 MPa ISO 2039-1 Hardness, Rockwell R 125 - ISO 2039-2 IMPACT (1)** ************************************	Tensile Stress, break, 50 mm/min	60	MPa	ISO 527
Fensile Modulus . 1 mm/min 2400 MPa ISO 527 Flexural Stress, yield, 2 mm/min 105 MPa ISO 178 Flexural Modulus, 2 mm/min 2350 MPa ISO 2039-1 Ball Indentation Hardness, H358/30 145 MPa ISO 2039-2 IMPACT (1) V V ISO 2039-2 IMPACT (1) V V ASTM D4812 Izod Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, notched, 23°C 80 J/m ASTM D4812 Izod Impact, notched, 23°C 80 J/m ASTM D256 Izod Impact, notched, 30°C NB I/m ASTM D256 Izod Impact, notched, 80°10°3 +23°C NB I/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C NB I/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C NB I/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 9 I/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 9 I/m² ISO 180/10 Izod Impact, notched 8	Tensile Strain, yield, 50 mm/min	7	%	ISO 527
Flexural Stress, yield, 2 mm/min 105 MPa ISO 178 Flexural Modulus, 2 mm/min 2350 MPa ISO 178 Ball Indentation Hardness, H358/30 145 MPa ISO 2039-1 Hardness, Rockwell R 125 - ISO 2039-2 IMPACT (¹) V V ISO 2039-2 Impact, unnotched, 23°C NB J/m ASTM 04812 Izod Impact, unnotched, 30°C 80 J/m ASTM 0256 Izod Impact, ontched, 30°C 75 J/m ASTM 0256 Izod Impact, unnotched 80°10°3 +23°C NB I/m² ISO 180/10 Izod Impact, unnotched 80°10°3 +23°C NB I/m² ISO 180/10 Izod Impact, unnotched 80°10°3 +23°C NB I/m² ISO 180/10 Izod Impact, unnotched 80°10°3 -30°C NB I/m² ISO 180/10 Izod Impact, ontched 80°10°3 -30°C NB I/m² ISO 180/10 Izod Impact, ontched 80°10°3 sp=62mm 10 I/m² ISO 180/10 Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm NB I/m² I/m² ISO	Tensile Strain, break, 50 mm/min	>55	%	ISO 527
Flexural Modulus, 2 mm/min 2350 MPa ISO 178 Ball Indentation Hardness, H358/30 145 MPa ISO 2039-1 Hardness, Rockwell R 125 - ISO 2039-2 IMPACT (¹) Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, notched, 23°C 80 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB I/J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB I/J/m² ISO 180/1U Izod Impact, unnotched 80°10°3 +23°C NB I/J/m² ISO 180/1U Izod Impact, notched 80°10°3 +23°C NB I/J/m² ISO 180/1U Izod Impact, notched 80°10°3 +23°C 9 I/J/m² ISO 180/1U Izod Impact, notched 80°10°3 -30°C 9 I/J/m² ISO 180/1U Izod Impact, notched 80°10°3 -30°C 9 I/J/m² ISO 180/1A Charpy 23°C, Vnotch Edgew 80°10°3 spe62mm 10 I/J/m² ISO 179/1e Charpy 23°C, Vnotch Edgew 80°10°3 spe62mm	Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Ball Indentation Hardness, H358/30 145 MPa ISO 2039-1 Hardness, Rockwell R 125 - ISO 2039-2 IMPACT (1)	Flexural Stress, yield, 2 mm/min	105	MPa	ISO 178
Hardness, Rockwell R 125 - ISO 2039-2 IMPACT (1) Izod Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, -30°C NB J/m ASTM D4812 Izod Impact, notched, -30°C 80 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°3 -30°C NB kJ/m² ISO 180/10 Izod Impact, notched 80°10°3 -30°C NB kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ASTM D1525	Flexural Modulus, 2 mm/min	2350	MPa	ISO 178
IMPACT (1) Izod Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, -30°C NB J/m ASTM D4812 Izod Impact, unnotched, -30°C 80 J/m ASTM D256 Izod Impact, notched, -30°C 75 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB kl/m² ISO 180/10 Izod Impact, notched 80°10°3 -30°C NB kl/m² ISO 180/10 Izod Impact, notched 80°10°3 -30°C 9 kl/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kl/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kl/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kl/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kl/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 10 kl/m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kl/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kl/m² ISO 179/1eU	Ball Indentation Hardness, H358/30	145	MPa	ISO 2039-1
Izod Impact, unnotched, 23°C NB J/m ASTM D4812 Izod Impact, unnotched, 30°C NB J/m ASTM D4812 Izod Impact, notched, 23°C 80 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C 75 J/m ASTM D256 Izod Impact, unnotched 80°10°3 -30°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°3 -30°C 9 kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² SO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² SO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² SO 179/1eA	Hardness, Rockwell R	125	-	ISO 2039-2
Izod Impact, unnotched, 30°C NB J/m ASTM D4812 Izod Impact, notched, 23°C 80 J/m ASTM D256 Izod Impact, notched, 30°C 75 J/m ASTM D256 Izod Impact, unnotched 80°10°3 -23°C NB kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°3 -30°C NB kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 sp=62mm 10 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy 30°C, V-notch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² KJ/m²	IMPACT (1)			
Izod Impact, notched, 23°C 80 J/m ASTM D256 Izod Impact, notched, -30°C 75 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°3 -30°C NB kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 9 kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 9 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² SISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² ASTM D1525 Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm 155 °C ASTM D1525	Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Izod Impact, notched, -30°C 75 J/m ASTM D256 Izod Impact, unnotched 80*10'3 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10'3 -30°C NB kJ/m² ISO 180/1A Izod Impact, notched 80*10'3 +23°C 9 kJ/m² ISO 180/1A Izod Impact, notched 80*10'3 -30°C 9 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80*10'3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10'3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10'3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10'3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL ⁽¹⁾ Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Izod Impact, unnotched, -30°C	NB	J/m	ASTM D4812
Izod Impact, unnotched 80*10*3 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10*3 -30°C NB kJ/m² ISO 180/1U Izod Impact, notched 80*10*3 +23°C 9 kJ/m² ISO 180/1A Izod Impact, notched 80*10*3 -30°C 9 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹¹) Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Izod Impact, notched, 23°C	80	J/m	ASTM D256
Izod Impact, unnotched 80*10*3 -30°C NB KJ/m² ISO 180/1U Izod Impact, notched 80*10*3 +23°C 9 KJ/m² ISO 180/1A Izod Impact, notched 80*10*3 -30°C 9 KJ/m² ISO 180/1A Izod Impact, notched 80*10*3 sp=62mm 10 KJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm 10 KJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm ISO 179/1eU ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm ISO 179/1eU ISO 17	Izod Impact, notched, -30°C	75	J/m	ASTM D256
Izod Impact, notched 80*10*3 +23°C 9 kJ/m² ISO 180/1A Izod Impact, notched 80*10*3 -30°C 9 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (1) Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Izod Impact, unnotched 80*10*3 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*3 -30°C 9 kJ/m² ISO 180/1A	Izod Impact, unnotched 80*10*3 -30°C	NB	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹¹) Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Izod Impact, notched 80*10*3 +23°C	9	kJ/m²	ISO 180/1A
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm 10 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹¹) Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Izod Impact, notched 80*10*3 -30°C	9	kJ/m²	ISO 180/1A
Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹) Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	10	kJ/m²	ISO 179/1eA
Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (1) Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	10	kJ/m²	ISO 179/1eA
THERMAL (1) Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Vicat Softening Temp, Rate B/50 155 °C ASTM D1525 Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Vicat Softening Temp, Rate B/120 156 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	THERMAL (1)			
HDT, 0.45 MPa, 3.2 mm, unannealed 150 °C ASTM D648	Vicat Softening Temp, Rate B/50	155	°C	ASTM D1525
	Vicat Softening Temp, Rate B/120	156	°C	ASTM D1525
HDT, 1.82 MPa, 3.2mm, unannealed 138 °C ASTM D648	HDT, 0.45 MPa, 3.2 mm, unannealed	150	°C	ASTM D648
	HDT, 1.82 MPa, 3.2mm, unannealed	138	°C	ASTM D648



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, flow	6.E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	6.E-05	1/°C	ASTM E831
Thermal Conductivity @ 25 °C	0.2	W/m-°C	ASTM C177
CTE, -40°C to 40°C, flow	6.E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.E-05	1/°C	ISO 11359-2
Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2
Vicat Softening Temp, Rate B/50	155	°C	ISO 306
Vicat Softening Temp, Rate B/120	158	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	150	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Af
Metallized Haze pass at 1.5mm	145	°C	SABIC method
PHYSICAL (1)			
Specific Gravity	1.2	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm (2)	0.6 - 0.9	%	SABIC method
Melt Flow Rate, 300°C/2.16 kgf	37	g/10 min	ASTM D1238
Melt Flow Rate, 330°C/2.16 kgf	90	g/10 min	ASTM D1238
Density	1.2	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.25	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.25	%	ISO 62
Melt Volume Rate, MVR at 300°C/2.16 kg	33	cm³/10 min	ISO 1133
Melt Volume Rate, MVR at 330°C/2.16kg	85	cm³/10 min	ISO 1133
INJECTION MOLDING (3)			
Drying Temperature	130	°C	
Drying Time	4 – 6	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	290 – 335	°C	
Nozzle Temperature	285 – 330	°C	
Front - Zone 3 Temperature	290 – 335	°C	
Middle - Zone 2 Temperature	280 – 325	°C	
Rear - Zone 1 Temperature	270 – 315	°C	
Mold Temperature	85 – 130	°C	
Back Pressure	0.3 - 0.7	MPa	
Screw Speed	40 – 90	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 - 0.08	mm	

⁽¹⁾ The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

⁽²⁾ Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.,The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

⁽³⁾ Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.



ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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