

ULTEM™ RESIN AR9100

REGION ASIA

DESCRIPTION

10% Glass fiber filled, standard flow Polyetherimide (Tg 217C). Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke, and flame evolution. ECO Conforming.

INDUSTRY	SUB INDUSTRY	
Automotive	Aerospace	
Mass Transportation	Rail	

TYPICAL PROPERTY VALUES

Revision 20231109

MECHANICAL Tensile Stress, jrd. Type I, 5 mm/min 110 MPa ASTM D638 Tensile Stress, jrd. Type I, 5 mm/min 119 MPa ASTM D638 Tensile Modulus, 5 mm/min 4340 MPa ASTM D638 Flexural Stress, jrd, 2.6 mm/min, 100 mm span 193 MPa ASTM D790 Flexural Modulus, 2.6 mm/min, 100 mm span 193 MPa ASTM D790 IMPACT Impact, notched, 23°C 69 J/m ASTM D256 Izod Impact, Reverse Notched, 3.2 mm 480 J/m ASTM D256 THERMAL THERMAL THERMAL THERMAL HDT, 1.82 MPa, 6.4 mm, unannealed 207 °C ASTM D648 PHYSICAL TS ASTM D648 PHYSICAL Sector Gravity ASTM D648 Mold Shrinkage, flow, 3.2 mm 50.0 G ASTM D792 Molt Flow Rate, 337°C/c los fig 50.0 G ASTM D1238 FAR FAR FRamability, FAR 25.853 A/B NATURAL FAR 25.853 OSU total heat release (2 minute test) 5 KW-min/m² FAR 25.853	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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INJECTION MOLDING Drying Temperature 150 °C	NBS Smoke Density, Flaming, Ds 1.5 min	0	-	ASTM E662
Drying Temperature 150 °C	NBS Smoke Density, Flaming, Ds 4 min	5	-	ASTM E662
7 3 2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	INJECTION MOLDING			
Drying Time 4 – 6 Hrs	Drying Temperature	150	°C	
	Drying Time	4 – 6	Hrs	
Drying Time (Cumulative) 24 Hrs	Drying Time (Cumulative)	24	Hrs	
Maximum Moisture Content0.02%	Maximum Moisture Content	0.02	%	



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Temperature	365 – 390	°C	
Nozzle Temperature	360 – 380	°C	
Front - Zone 3 Temperature	365 – 390	°C	
Middle - Zone 2 Temperature	355 – 375	°C	
Rear - Zone 1 Temperature	345 – 365	°C	
Mold Temperature	135 – 165	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 - 0.076	mm	

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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