

GELOY™ RESINS

GELOY™ resins are amorphous Polycarbonate Acrylonitrile Styrene Acrylate blends that offer excellent property retention after weathering of ASA materials and the superior mechanical properties and heat resistance of polycarbonate (PC).

GENERAL PURPOSE		MVR	FLEXURAL MODULUS	IZOD IMPACT	VICAT SOFTENING TEMP	UL LISTING	
XP7560	General purpose, good flow.	20	2500	20	107	HB/3.2	
HRA170	High impact resistant grade with good impact retention.	17	2400	45	132	HB/1.6-3.2	
HRA170E	High heat, BPT >125°C.	17	2400	45	134	HB/1.6-3.2	
ANTIDUST							
HRA170D	High heat, high impact resistant injection molding grade with permanent antistatic behavior.	29	2100	45	122	HB/3.2	
WEATHERABLE							
XP4025	PC/ASA/PMMA blend. Medium heat, middle impact.	18	2350	15	107	HB/1.5	
XP4034	PC/ASA/PMMA blend. Medium heat, high impact.	15	2500	33	109	-	
FLAME RETARDANT							
HRA222	Non-brominated and non-chlorinated, FR according UL746H, offering good balance of heat, flow and impact.	13	2510	17	104	5VB/2.3	
HRA222F	Non-brominated and non-chlorinated, FR according UL746H, UV stabilized with an F1 rating according UL746C.	13	2510	17	104	5VB/2	
		Standard Unit	ISO1033 cm ³ /10min	ISO178 MPa	ISO180/1A kJ/m ²	ISO306 °C	UL94 Flame class
		Condition	**260°C/5kg		Notched +23°C	B/120	

GENERAL VALUE PROPOSITION

GENERAL PURPOSE

- Available with non BR & CI flame retardant system, achieving UL94 listing
- Variety of stiffness and flow with balanced heat and practical impact for different wall thickness design
- Good aesthetics with all-colors capability and good paintability
- Lower coefficients of thermal expansion with good dimensional stability / low shrinkage

FLAME RETARDENCY

IMPACT – MEET UL94 RATINGS OVER WIDE RANGE OF GAUGES

- Non BR & CI flame retardant system
- Ease of molding for productivity

RELATIVE COMPARISON OF PROPERTIES

	SABIC® PP	LEXAN™	CYCOLOY™	GELOY™	XENOY™	VALOX™	XYLEX™	SABIC® PMMA	CYCOLAC™
Property	PP	PC	PC/ABS	PC/ASA	PC/PBT	PBT	PC/ Polyester	PMMA	ABS
Processability	+++	+	++	++	0	++	+	++	+++
Low Temperature Impact	+	+	++	+	+++	0	+	-	+
Heat	0	+++	++	++	++	+++	++	+	+
Non-halogenated FR available	Yes	Yes	Yes	Yes	N.A.	No	N.A.	N.A.	No
UV Stability	-	+	+	++	++	++	++	++	-
Weatherability	-	+	0	++	++	++	++	++	-
Colorability	+++	++	++	+	+	+	+	++	+++
Aesthetics	++	++	+	+	+	+	+	++	++
Paintability	0	++	++	++	++	0	++	++	++
Density	+++	+	+	+	+	+	+	+	++
Modulus/Impact balance	+	+	++	+	++	0	++	0	++
Transparency	No	Yes	No	No	No	No	Yes	Yes	No

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