

SABIC Innovative Plastics GELOY XP4034 ASA+PC (Asia Pacific)

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

Material Notes:

Weatherable, injection moldable ASA+PC blend. In a wide range of colors. Recommended for unpainted exterior/high heat applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-XP4034-ASAPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.25 %	0.25 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	24 g/10 min	24 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 280 °C	@Load 8.38 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	88.0 MPa	12800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.51 GPa	364 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	3.20 J/cm	5.99 ft-lb/in	ASTM D256
	0.800 J/cm	1.50 ft-lb/in	
Dart Drop, Total Energy	@Temperature -30.0 °C	@Temperature -22.0 °F	ASTM D256
	30.0 J	22.1 ft-lb	
Dart Drop, Total Energy	@Temperature -30.0 °C	@Temperature -22.0 °F	ASTM D3763
	47.0 J	34.7 ft-lb	
Dart Drop, Total Energy	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D3763
	47.0 J	34.7 ft-lb	

Mechanical Properties	Metric	English	Comments
Thermal Properties			
CTE, linear, Parallel to Flow	72.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -20.0 - 150 $^\circ\text{C}$	@Temperature -4.00 - 302 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -20.0 - 150 $^\circ\text{C}$	@Temperature -4.00 - 302 $^\circ\text{F}$	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	115 $^\circ\text{C}$	239 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	104 $^\circ\text{C}$	219 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Optical Properties			
Gloss	94 %	94 %	untextured, 60 degrees; ASTM D523

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