

SABIC Innovative Plastics GELOY XP4025 ASA+PC (Asia Pacific)

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

Material Notes:

ASA+PC blend. Weatherable, injection grade. Available in a wide range of colors and is recommended for unpainted exterior applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-XP4025-ASAPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	0.24 %	0.24 %	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	18 g/10 min	18 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	59.0 MPa	8560 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	2.58 GPa	374 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Dart Drop, Total Energy	@Temperature -30.0 °C	@Temperature -22.0 °F	ASTM D3763
	33.0 J	24.3 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D3763
	37.0 J	27.3 ft-lb	

Mechanical Properties	Metric	English	Comments
Thermal Properties			
	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	40.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E 831
	@Temperature -20.0 - 150 °C	@Temperature -4.00 - 302 °F	
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	40.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E 831
	@Temperature -20.0 - 150 °C	@Temperature -4.00 - 302 °F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	216 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	50.0 °C	122 °F	UL 746B
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	untextured, 60 degrees; ASTM D523

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