

SABIC Innovative Plastics Cycolac® INP576 ABS+SAN

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Can be used as compounding additives for polymer blends. Medium molecular weight SAN. Can be blended with high rubber graft modifier resins to produce customized ABS properties. Suitable for direct weather exposure. Most versatile SAN for balance of processing and physical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycolac-INP576-ABSSAN.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Melt Flow	23 g/10 min	23 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	78 g/10 min	78 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength at Break	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.97 GPa	576 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	68.0 MPa	9860 psi	2 mm/min; ISO 178
	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.54 GPa	513 ksi	2 mm/min; ISO 178
	3.57 GPa	518 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
	0.130 J/cm	0.244 ft-lb/in	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ASTM D256 Comments
Izod Impact, Notched (ISO)	1.00 kJ/m ²	0.476 ft-lb/in ²	80*10*4; ISO 180/1A
	1.00 kJ/m ² @Temperature -30.0 °C	0.476 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact Unnotched	0.100 J/cm ²	0.476 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C @Thickness 3.20 mm	208 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	87.0 °C @Thickness 3.20 mm	189 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	102 °C	216 °F	Rate B/50; ISO 306
	106 °C	223 °F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Yellow Index	1.0 %	1.0 %	ASTM D1925

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