

SABIC Innovative Plastics Cyclac® INP576 ABS

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. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-INP576-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D 792
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Melt Flow	23 g/10 min	23 g/10 min	ASTM D 1238
	@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 D 785
Tensile Strength at Break	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	3.97 GPa	576 ksi	5 mm/min; ASTM D 638
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 D 790
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 D 790
Izod Impact, Notched	0.130 J/cm	0.244 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	0.210 J/cm Metric	0.393 ft-lb/in English	Comments ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	1.00 kJ/m ²	0.476 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.00 kJ/m ²	0.476 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	0.100 J/cm ²	0.476 ft-lb/in ²	ISO 179/2C
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
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	189 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
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 D 1925

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