

SABIC Innovative Plastics Cyclac® INP572 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

High molecular weight SAN, functions as a carrier resin for color concentrates. Can be used as compounding additives for polymer blends. Can be blended with high rubber graft modifier resins to produce customized ABS properties. Suitable for direct weather exposure. Provides excellent melt strength for extrusion, blow molding, or thermoforming applications. 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-INP572-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	5.8 g/10 min	5.8 g/10 min	ASTM D 1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	16 g/10 min	16 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	92.0 MPa	13300 psi	2 mm/min; ISO 178
	134 MPa	19400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.46 GPa	502 ksi	2 mm/min; ISO 178
	3.90 GPa	566 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.460 J/cm	0.862 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °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)	95.0 °C	203 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	85.0 °C	185 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	102 °C	216 °F	Rate B/50; ISO 306
	105 °C	221 °F	Rate B/120; ISO 306

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