

SABIC Innovative Plastics Cycolac® INP630 ABS+SAN

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

INP630 is a specialty polymer that increases the service temperature of products. Can be used with a impact modifier to provide impact strength as well as high heat resistance. Provides excellent high heat resistance in thermoplastic polymers. Offers excellent flow properties in outdoor applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycolac-INP630-ABSSAN.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Melt Flow	10.9 g/10 min	10.9 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	21 g/10 min	21 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	58.0 MPa	8410 psi	2 mm/min; ISO 178
	115 MPa	16700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.62 GPa	525 ksi	2 mm/min; ISO 178
	3.88 GPa	563 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.190 J/cm	0.356 ft-lb/in	ASTM D256
	0.130 J/cm	0.244 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
	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, Notched	0.100 J/cm ²	0.476 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 °C	210 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	100 °C	212 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	116 °C	241 °F	Rate B/50; ISO 306
	118 °C	244 °F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Yellow Index	6.0 %	6.0 %	ASTM D1925

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