

SABIC Innovative Plastics Cyclac® INP222 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Bulk MMASAN. Provides an economical option for achieving greater melt strength in polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-INP222-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Melt Flow	18.3 g/10 min	18.3 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	48 g/10 min	48 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	121	121	ASTM D785
Flexural Yield Strength	92.0 MPa	13300 psi	2 mm/min; ISO 178
	114 MPa	16500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	2 mm/min; ISO 178
	3.52 GPa	511 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	ASTM D256
	0.150 J/cm @Temperature -30.0 °C	0.281 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 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, 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 (50 psi)	86.0 °C	187 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	75.0 °C	167 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	93.0 °C	199 °F	Rate B/50; ISO 306
	95.0 °C	203 °F	Rate B/120; ISO 306

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

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