

SABIC Innovative Plastics Cycolac® INP563 ABS+SAN

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

SABIC INP563 provides compatibility with a wider range of ABS grades than many color concentrate bases; allows better dispersion than pellets; allows concentrate manufacturers to produce both pelletized and dry blend concentrate; provides a base resin with less heat history than pellets; suitable for direct weather exposure; can be used in all SAN applications where a fine particle size is desired.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycolac-INP563-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	19.5 g/10 min	19.5 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	47 g/10 min	47 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	123	123	ASTM D785
Tensile Strength at Break	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D638
	74.0 MPa	10700 psi	50 mm/min; ISO 527
Tensile Strength, Yield	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D638
	74.0 MPa	10700 psi	50 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	50 mm/min; ISO 527
	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.0 %	2.0 %	50 mm/min; ISO 527
	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.86 GPa	560 ksi	5 mm/min; ASTM D638
	3.97 GPa	576 ksi	1 mm/min; ISO 527
Flexural Yield Strength	46.0 MPa	6670 psi	2 mm/min; ISO 178

Mechanical Properties	93.0 MPa Metric	13500 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	3.46 GPa	502 ksi	2 mm/min; ISO 178
	3.77 GPa	547 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.180 J/cm	0.337 ft-lb/in	ASTM D256
	0.220 J/cm	0.412 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
	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	
Charpy Impact, Notched	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)	95.0 °C	203 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	82.0 °C	180 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	102 °C	216 °F	Rate B/50; ISO 306
	104 °C	219 °F	Rate B/120; ISO 306

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