

SABIC Innovative Plastics Cycolac® INP562 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

SABIC INP562 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. 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-Cycolac-INP562-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	6.4 g/10 min	6.4 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
Hardness, Rockwell R	121	121	ASTM D 785
Tensile Strength at Break	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D 638
	78.0 MPa	11300 psi	50 mm/min; ISO 527
Tensile Strength, Yield	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D 638
	78.0 MPa	11300 psi	50 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	50 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	2.2 %	2.2 %	50 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	3.83 GPa	555 ksi	5 mm/min; ASTM D 638
	3.95 GPa	573 ksi	1 mm/min; ISO 527
Flexural Yield Strength	74.0 MPa	10700 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	103 MPa	14900 psi	7.0 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.46 GPa	502 ksi	2 mm/min; ISO 178
	3.78 GPa	548 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.230 J/cm	0.431 ft-lb/in	ASTM D 256
	@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
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	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
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	97.0 °C	207 °F	ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	84.0 °C	183 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	104 °C	219 °F	Rate B/50; ISO 306
	106 °C	223 °F	Rate B/120; ISO 306

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