

Polymer Resources ABS-GP-IM General Purpose ABS, Impact Modified

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded

Material Notes:

General Purpose Acrylonitrile Butadiene Styrene, Impact Modified
 Process: Injection Molding
 Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples.
 Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-ABS-GP-IM-General-Purpose-ABS-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	1.0 - 3.0 g/10 min	1.0 - 3.0 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	7.0 - 11 g/10 min	7.0 - 11 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.9 MPa	5500 psi	ASTM D638
Tensile Strength, Yield	30.3 MPa	4400 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Tensile Modulus	1.93 GPa	280 ksi	ASTM D638
Flexural Strength	58.7 MPa	8510 psi	ASTM D790
Flexural Modulus	1.89 GPa	274 ksi	ASTM D790
Izod Impact, Notched	3.74 J/cm	7.00 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Izod Impact, Notched (ISO)	9.03 kJ/m ²	4.30 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	27.3 kJ/m ²	13.0 ft-lb/in ²	ISO 180/1A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
	2.94 J/cm ²	14.0 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 22.8 °C	English @ Temperature 73.0 °F	ISO 179/1eA Comments
Gardner Impact	22.6 J	16.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.8 °C	190 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Vicat Softening Point	98.9 °C	210 °F	120°C/h, 50 N; ASTM D1525

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 - 210 °C	380 - 410 °F	
Middle Barrel Temperature	216 - 238 °C	420 - 460 °F	
Front Barrel Temperature	227 - 254 °C	440 - 490 °F	
Melt Temperature	232 - 274 °C	450 - 525 °F	
Mold Temperature	48.9 - 82.2 °C	120 - 180 °F	
Drying Temperature	82.2 - 93.9 °C	180 - 201 °F	
Dry Time	2.00 - 5.00 hour	2.00 - 5.00 hour	

Descriptive Properties	Value	Comments
Vent	0.001	

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