

Polymer Resources ABS-GP-HH General Purpose ABS, High Heat

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

General Purpose Acrylonitrile Butadiene Styrene, High Heat 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-HH-General-Purpose-ABS-High-Heat.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 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 - 5.0 g/10 min @Load 3.80 kg, Temperature 230 °C	1.0 - 5.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength at Break	42.1 MPa	6100 psi	ASTM D638
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	4.5 %	4.5 %	ASTM D638
Tensile Modulus	2.21 GPa	320 ksi	ASTM D638
Flexural Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature -40.0 °C	1.00 ft-lb/in @Temperature -40.0 °F	ASTM D256
	1.87 J/cm @Temperature 22.8 °C	3.50 ft-lb/in @Temperature 73.0 °F	ASTM D256
Izod Impact, Notched (ISO)	6.30 kJ/m² @Temperature -30.0 °C	3.00 ft-lb/in² @Temperature -22.0 °F	ISO 180/1A
	13.0 kJ/m² @Temperature 22.8 °C	6.20 ft-lb/in² @Temperature 73.0 °F	ISO 180/1A

Mechanical Properties <i>Charpy Impact, Notched</i>	1.05 J/cm² Metric	5.00 ft-lb/in² English	Comments <i>ISO 179/1BA</i>
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Gardner Impact	22.6 J	16.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	215 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.6 °C	195 °F	ASTM D648
Vicat Softening Point	116 °C	240 °F	120°C/h, 50 N; ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	

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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