

Polymer Resources ABS-G25 ABS, 25% Glass Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled

Material Notes:

Acrylonitrile Butadiene Styrene, 25% Glass Reinforced
 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-G25-ABS-25-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	0.50 - 5.0 g/10 min @Load 3.80 kg, Temperature 230 °C	0.50 - 5.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.1 MPa	13500 psi	ASTM D638
Tensile Strength, Yield	93.1 MPa	13500 psi	ASTM D638
Elongation at Yield	1.5 %	1.5 %	ASTM D638
Flexural Strength	128 MPa	18500 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	104 °C	220 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	191 - 199 °C	375 - 390 °F	
Middle Barrel Temperature	210 - 221 °C	410 - 430 °F	
Front Barrel Temperature	210 - 227 °C	410 - 440 °F	

Melt Temperature Processing Properties	210 - 238 °C Metric	410 - 460 °F English	Comments
Mold Temperature	48.9 - 60.0 °C	120 - 140 °F	
Drying Temperature	79.4 - 85.0 °C	175 - 185 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.001	

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