

Star Plastics ABS450FR Molding Grade ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-ABS450FR-Molding-Grade-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Maximum Moisture Content	0.15	0.15	
Linear Mold Shrinkage	0.0058 - 0.0080 cm/cm	0.0058 - 0.0080 in/in	ASTM D955
Melt Flow	5.0 g/10 min @Load 3.80 kg, Temperature 230 Â°C	5.0 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Tensile Modulus	2.21 GPa	320 ksi	ASTM D638
Flexural Yield Strength	65.5 MPa	9500 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm	3.50 ft-lb/in	73Â°F, 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.7 Â°C	170 Â°F	unannealed, .125in; ASTM D648
Flammability, UL94	V-0	V-0	.062in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 182 Â°C	330 - 360 Â°F	
Middle Barrel Temperature	177 - 204 Â°C	350 - 400 Â°F	
Front Barrel Temperature	191 - 232 Â°C	375 - 450 Â°F	
Nozzle Temperature	191 - 232 Â°C	375 - 450 Â°F	
Melt Temperature	191 - 232 Â°C	375 - 450 Â°F	

Processing Properties	Metric	English	Comments
Drying Temperature	76.7 - 87.8 Å°C	170 - 190 Å°F	
Dry Time	2 - 4 hour	2 - 4 hour	
Back Pressure	0.172 - 0.689 MPa	25.0 - 100 psi	
Screw Speed	25 - 75 rpm	25 - 75 rpm	

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