

Star Plastics ABS405 Extrusion Grade ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-ABS405-Extrusion-Grade-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Maximum Moisture Content	0.15	0.15	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 3.80 kg, Temperature 230 Å°C	3.0 g/10 min @Load 8.38 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM D638
Tensile Modulus	2.21 GPa	320 ksi	ASTM D638
Flexural Yield Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	3.74 J/cm	7.00 ft-lb/in	73Å°F, 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.4 Å°C	175 Å°F	unannealed, .125in; ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	188 - 218 Å°C	370 - 425 Å°F	
Middle Barrel Temperature	204 - 232 Å°C	400 - 450 Å°F	
Front Barrel Temperature	218 - 246 Å°C	425 - 475 Å°F	
Nozzle Temperature	218 - 274 Å°C	425 - 525 Å°F	
Melt Temperature	218 - 274 Å°C	425 - 525 Å°F	

Processing Properties	Metric	English	Comments
Drying Temperature	82.2 - 93.3 Å°C	180 - 200 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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