

GRADE: ABS405

Molding Grade ABS

Typical Material Properties

Physical	Nominal Values	ASTM Test	
Specific Gravity Melt Flow (230°C/3.8 kg)	1.04 2.5 g/10 min	D792 D1238	
Mechanical			
Tensile Modulus Tensile Strength @ Yield Flexural Modulus Flexural Strength @ Yield	320,000 psi 6,000 psi 350,000 psi 10,000 psi	D638 D638 D790 D790	
Impact			
Notched Izod Impact (73°F, 0.125 in)	7 ft-lb/in	D256	
Thermal			
DTUL @ 264 PSI – unannealed (0.125)	175°F	D648	
Mold Shrinkage			
Linear Flow	.004 – .007 in/in	D955	
UL Rating	HB (1.5 mm)	UL 94	

The information provided above is based upon typical values, and is intended only as a guide. Star Plastics, LLC assumes no obligation or liability for any advice furnished or for any results obtained with respect to this information. *No guarantees or warranties are expressed or implied.*

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Recommended Processing Guidelines

	Nominal Values	
Drying Time and Temperature	2.0 – 4.0 hrs, 180°F – 200°F	
Suggested Max Moisture	0.15%	
Rear Temperature	370°F – 425°F	
Middle Temperature	400°F – 450°F	
Front Temperature	425°F – 475°F	
Nozzle Temperature	425°F – 525°F	
Processing (Melt) Temperature	425°F – 525°F	
Mold Temperature	120°F – 170°F	
Back Pressure	25 – 100 psi	
Screw Speed	25 – 75 RPM	

The conditions listed above are only guidelines. You may want to adjust conditions to meet your requirements.