

Grade: ABS405

Molding Grade ABS

Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.04	D792
Melt Flow (230°C/3.8 kg)	2.5 g/10 min	D1238
Mechanical		
Tensile Modulus	320,000 psi	D638
Tensile Strength @ Yield	6,000 psi	D638
Flexural Modulus	350,000 psi	D790
Flexural Strength @ Yield	10,000 psi	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.