

Orion™ Resins

Grade: ABS9020
Molding Grade ABS



TYPICAL MATERIAL PROPERTIES

Physical	Nominal Values	ASTM Test
Specific Gravity	1.05	D792
Melt Flow (230°C/3.8 kg)	9.0 g/10 min	D1238
Mechanical		
Tensile Modulus	330,000 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)	2.0 ft-lb/in	D256
Thermal		
DTUL @ 264 psi-unannealed (0.125 in)	180 °F	D648
Mold Shrinkage		
Linear Flow	.004 - .008 in/in	D955

The information provided above is based upon typical values, and are intended only as guides. Star Plastics/SDR Inc. 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 at 180 - 200°F
Suggested Max Moisture	0.15%
Rear Temperature	370 – 425 °F
Middle Temperature	400 – 450 °F
Front Temperature	425 – 475 °F
Nozzle Temperature	425 – 525 °F
Processing (Melt) Temperature	425 – 525 °F
Mold Temperature	120 – 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.

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Technical Data Sheet
StarPlastics.com

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Navigating Custom Compounds