



MAGNUM™ 3404 Smooth

Trinseo - ABS Resin

Sunday, November 3, 2019

General Information

Product Description

MAGNUM™ 3404 Smooth is an excellent general purpose extrusion / thermoforming resin with outstanding processability. The mass (continuous process) ABS technology ensures an ABS resin that combines excellent processability with a stable light base colour that is ideal for self-colouring. The new MAGNUM 'Smooth Series' resins have an ultra low particulate content, which results in a superb surface finish that will enable our customers to produce parts with excellent aesthetics at a lower total cost.

Applications:

- Transportation
- Sanitary ware
- Signage
- Furnishings
- Protective covers
- Marine
- Recreational vehicles

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Features	• Good Processability	• Pleasing Surface Appearance	
Uses	• Furniture	• Marine Applications	
	• General Purpose	• Protective Coverings	
Forms	• Pellets		
Processing Method	• Blow Molding	• Profile Extrusion	• Thermoforming
	• Injection Molding	• Sheet Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.6	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	6.70	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.126 in, Injection Molded)	312000	psi	ISO 527-2
Tensile Stress (Yield, 0.126 in, Injection Molded)	6240	psi	ISO 527-2/50
Tensile Strain (Yield, 0.126 in, Injection Molded)	2.7	%	ISO 527-2/50
Flexural Modulus ^{2, 3} (0.126 in, Injection Molded)	305000	psi	ISO 178
Flexural Stress ^{2, 3} (0.126 in, Injection Molded)	10200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-22°F, Injection Molded	6.2	ft-lb/in ²	ISO 179/1eA
-22°F, Injection Molded	3.8	ft-lb/in ²	ISO 179/2C
73°F, Injection Molded	8.6	ft-lb/in ²	ISO 179/1eA
73°F, Injection Molded	6.2	ft-lb/in ²	ISO 179/2C

MAGNUM™ 3404 Smooth

Trinseo - ABS Resin

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-22°F, Injection Molded	5.2	ft·lb/in ²	
73°F, Injection Molded	9.0	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Annealed)	214	°F	ISO 75-2/A
Vicat Softening Temperature	216	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (0.0787 in)	2.0	in/min	ISO 3795
Flame Rating ⁴			UL 94
0.06 in	HB		
0.12 in	HB		

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 3-points

⁴ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.