

MAGNUM™ 3404 Smooth

ABS Resin

Trinseo

Message:

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 Information			
Features	Good Processability		
	Pleasing Surface Appearance		
Uses	Furniture		
	General Purpose		
	Marine Applications		
	Protective Coverings		
Forms	Pellets		
Processing Method	Blow Molding		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
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)	4.7	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 (3.20 mm, Injection Molded)	2150	MPa	ISO 527-2
Tensile Stress (Yield, 3.20 mm, Injection Molded)	43.0	MPa	ISO 527-2/50

Tensile Strain (Yield, 3.20 mm, Injection Molded)	2.7	%	ISO 527-2/50
Flexural Modulus (3.20 mm, Injection Molded)	2100	MPa	ISO 178
Flexural Stress (3.20 mm, Injection Molded)	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C, Injection Molded	13	kJ/m ²	ISO 179/1eA
-30°C, Injection Molded	8.0	kJ/m ²	ISO 179/2C
23°C, Injection Molded	18	kJ/m ²	ISO 179/1eA
23°C, Injection Molded	13	kJ/m ²	ISO 179/2C
Notched Izod Impact Strength			ISO 180/A
-30°C, Injection Molded	11	kJ/m ²	
23°C, Injection Molded	19	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	101	°C	ISO 75-2/A
Vicat Softening Temperature	102	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate ¹ (2.00 mm)	50	mm/min	ISO 3795
Flame Rating ²			UL 94
1.50 mm	HB		
3.00 mm	HB		

NOTE

1.

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

2.

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