MAGNUM™ 3904 Smooth

ABS Resin

Trinseo

Message:

MAGNUM* 3904 is an extrusion / thermoforming resin developed for high impact and other technical applications.

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

Protective covers Sanitary ware

Marine

Signage

Recreational vehicles

Furnishings

Tensile Stress

Yield, 3.20 mm, Injection Molded

Yield, 3.20 mm, Injection Molded

37.0

39.0

General Information			
Features	Good Processability		
	High Impact Resistance		
	Pleasing Surface Appearance		
Uses	Furniture		
	Marine Applications		
	Protective Coverings		
Forms	Pellets		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183/B
Apparent Density	0.65	g/cm³	ISO 60
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)	4.70	cm³/10min	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)	1820	MPa	ISO 527-2

MPa

MPa

ISO 527-2/50

ISO 527-2/100

Tensile Strain			
Yield, 3.20 mm, Injection Molded	2.6	%	ISO 527-2/50
Yield, 3.20 mm, Injection Molded	2.8	%	ISO 527-2/100
Flexural Modulus (3.20 mm, Injection			
Molded)	1900	MPa	ISO 178
Flexural Stress (3.20 mm, Injection Molded)	58.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C, Injection Molded	18	kJ/m²	ISO 179/1eA
-30°C, Injection Molded	12	kJ/m²	ISO 179/2C
23°C, Injection Molded	37	kJ/m²	ISO 179/1eA
23°C, Injection Molded	22	kJ/m²	ISO 179/2C
Notched Izod Impact Strength			ISO 180/A
-30°C, Injection Molded	17	kJ/m²	
23°C, Injection Molded	42	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa,			
Annealed)	97.0	°C	ISO 75-2/A
Vicat Softening Temperature	97.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate ¹ (2.00 mm)	40	mm/min	ISO 3795
Flame Rating ²			UL 94
1.50 mm	НВ		
3.00 mm	НВ		
NOTE			
1.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
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