

MAGNUM™ 3904 Smooth LP

Trinseo - ABS Resin Sunday, November 3, 2019

General Information

Product Description

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.

With its ultra-low particulate content, this grade is an addition to the "Smooth Series" and features a lower plate (LP) out content. This results in a superior surface finish in which the plate out build-up on the extruder roll stack is reduced significantly. This new grade enables customers to produce parts with both outstanding aesthetics and surface cleanness at lower total cost.

Applications

- · Automotive interior
- Furniture

General			
Material Status	Commercial: Active		
Availability	• Europe	North America	
Features	 Good Processability 	High Impact Resistance	 Pleasing Surface Appearance
Uses	 Automotive Applications 	Automotive Interior Parts	Furniture
Forms	• Pellets		
Processing Method	Extrusion	Thermoforming	

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	1.05	g/cm³	ISO 1183/B	
Apparent (Bulk) Density	0.65	g/cm³	ISO 60	
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.7	g/10 min	ISO 1133	
Molding Shrinkage - Flow	0.10 to 0.70	%	ISO 294-4	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	264000	psi	ISO 527-2	
Tensile Stress				
Yield, 0.126 in, Injection Molded	5370	psi	ISO 527-2/50	
Yield, 0.126 in, Injection Molded	5660	psi	ISO 527-2/100	
Tensile Strain				
Yield, 0.126 in, Injection Molded	2.6	%	ISO 527-2/50	
Yield, 0.126 in, Injection Molded	2.8	%	ISO 527-2/100	
Flexural Modulus ^{2, 3}	276000	psi	ISO 178	
Flexural Stress ^{2, 3}	8410	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact Strength (73°F)	13	ft·lb/in²	ISO 180/A	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Annealed)	207	°F	ISO 75-2/A	
Vicat Softening Temperature	207	°F	ISO 306/B50	

our control, and we cannot and will not take responsibility for the information or content.



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Flammability	Nominal Value Unit	Test Method
Flame Rating ⁴		UL 94
0.06 in	НВ	
0.12 in	НВ	
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.

