

# MAGNUM™ 3904 Smooth LP

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.

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 Information			
Features	Good Processability		
	High Impact Resistance		
	Pleasing Surface Appearance		
Uses	Automotive Applications		
	Automotive Interior Parts		
	Furniture		
Forms	Pellets		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183/B
Apparent Density	0.65	g/cm <sup>3</sup>	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	1820	MPa	ISO 527-2
Tensile Stress			
Yield, 3.20 mm, Injection Molded	37.0	MPa	ISO 527-2/50
Yield, 3.20 mm, Injection Molded	39.0	MPa	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	1900	MPa	ISO 178
Flexural Stress	58.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	28	kJ/m <sup>2</sup>	ISO 180/A
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		Test Method
Flame Rating <sup>1</sup>			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.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

