



MAGNUM™ MATT

Trinseo - ABS Resin

Sunday, November 3, 2019

General Information

Product Description

MAGNUM™ MATT is an extrusion / thermoforming resin for applications requiring low gloss surface finish. It combines an excellent impact performance with good heat resistance. 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.

Applications:

- Mono and co-extruded sheets with matt appearance
- Thermoforming

Complies with:

- Europe EU-Directive 2002/72/EC
- Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Good Colorability • Good Processability	• High Heat Resistance • High Impact Resistance	• Low Gloss
Uses	• Sheet	• Thermoforming Applications	
Appearance	• Matte Finish		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Thermoforming

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)	6.5	g/10 min	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)	239000	psi	ISO 527-2
Tensile Stress (Yield, 0.126 in, Injection Molded)	4350	psi	ISO 527-2/50
Flexural Modulus ^{2, 3} (0.126 in, Injection Molded)	225000	psi	ISO 178
Flexural Stress ^{2, 3} (0.126 in, Injection Molded)	5800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.6	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	212	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating ⁴			UL 94
0.06 in		HB	
0.12 in		HB	

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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.