

Thursday, March 10, 2022

General Information

Product Description

MAGNUM™ 3453 ABS is a general purpose injection moulding resin suitable for a wide range of applications. The product combines a medium to high impact performance with goor flowability. 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:

- · Household appliances
- Telephones
- · Electrical and computer equipment
- · Consumer goods

Toys

General

Contertai			
Material Status	Commercial: Active		
Availability	Europe	North America	
Features	Good Flow	 Good Processability 	 High Impact Resistance
Uses	 Appliances Electrical/Electronic Applic	General Purpose ations Toys	
Forms	Pellets		
Processing Method	Injection Molding	Profile Extrusion	 Sheet Extrusion

ASTM & ISO Properties 1						
Physical	Nominal Value	Unit	Test Method			
Density	1.05	g/cm ³	ISO 1183			
Apparent (Bulk) Density	0.65	g/cm³	ISO 60			
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15	g/10 min	ISO 1133			
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4			
Mechanical	Nominal Value	Unit	Test Method			
Tensile Modulus	2280	MPa	ISO 527-1/1			
Tensile Stress (Yield)	45.0	MPa	ISO 527-2/50			
Tensile Strain (Yield)	2.5	%	ISO 527-2/50			
Flexural Modulus ²	2300	MPa	ISO 178			
Flexural Stress ²	68.0	MPa	ISO 178			
Impact	Nominal Value	Unit	Test Method			
Charpy Notched Impact Strength			ISO 179/1eA			
23°C, Injection Molded	18	kJ/m²				
Thermal	Nominal Value	Unit	Test Method			
Deflection Temperature Under Load (1.8 MPa, Annealed)		°C	ISO 75-2/A			
Vicat Softening Temperature	97.0	°C	ISO 306/B50			
Flammability	Nominal Value	Unit	Test Method			
Flame Rating ³			UL 94			
1.5 mm	HB					
3.0 mm	HB					
Carbon Emission ³	25.0	µg/g	VDA 277			

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MAGNUM™ 3453

Trinseo - ABS Resin

Additional Information	Nominal Value Unit	Test Method
Fogging ³	97 %	ISO 6452

Processing Information				
Injection	Nominal Value Unit			
Drying Temperature	80 to 90 °C			
Drying Time	2.0 to 4.0 hr			

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

³ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.





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