

MAGNUM™ 3453

ABS Resin

Trinseo

Message:

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 good 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 Information			
UL YellowCard	E162447-238263	E73656-249571	
Features	Good Flow		
	Good Processability		
	High Impact Resistance		
Uses	Appliances		
	Electrical/Electronic Applications		
	General Purpose		
	Toys		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/B
Apparent Density	0.65	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	15	g/10 min	
230°C/3.8 kg	5.0	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2280	MPa	ISO 527-2
Tensile Stress (Yield, 3.20 mm, Injection Molded)	45.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 3.20 mm, Injection Molded)	2.5	%	ISO 527-2/50
Flexural Modulus (3.20 mm, Injection Molded)	2300	MPa	ISO 178
Flexural Stress (3.20 mm, Injection Molded)	68.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Injection Molded	10	kJ/m ²	
23°C, Injection Molded	20	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C, Injection Molded	9.0	kJ/m ²	
23°C, Injection Molded	19	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	100	°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)	55	mm/min	ISO 3795
Flame Rating ²			UL 94
1.50 mm	HB		
3.00 mm	HB		
Carbon Emission ³	25.0	µg/g	VDA 277
Fogging ⁴	97	%	ISO 294-4
NOTE			

1.

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

2.

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3.

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4.

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