

MAGNUM™ 3504

ABS Resin

Trinseo

Message:

MAGNUM* 3504 is a general purpose resin and can be used for both injection moulding and extrusion applications. This grade combines high impact with medium-high 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:

General purpose extrusion and injection moulding applications

General Information			
UL YellowCard	E162447-238265	E73656-249573	
Features	Good Processability		
	High Heat Resistance		
	High Impact Resistance		
Uses	General Purpose		
Forms	Pellets		
Processing Method	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183/B
Apparent Density	0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.2	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.30	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ISO 294-4

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2140	MPa	ISO 527-2
Tensile Stress (Yield, 3.20 mm, Injection Molded)	43.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 3.20 mm, Injection Molded)	2.7	%	ISO 527-2/50
Flexural Modulus (3.20 mm, Injection Molded)	2050	MPa	ISO 178
Flexural Stress (3.20 mm, Injection Molded)	65.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C, Injection Molded	13	kJ/m²	ISO 179/1eA

-30°C, Injection Molded	9.0	kJ/m ²	ISO 179/2C
23°C, Injection Molded	23	kJ/m ²	ISO 179/1eA
23°C, Injection Molded	15	kJ/m ²	ISO 179/2C
Notched Izod Impact Strength			ISO 180/1A
-30°C, Injection Molded	12	kJ/m ²	
23°C, Injection Molded	25	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	101	°C	ISO 75-2/A
Vicat Softening Temperature	102	°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	30.0	µg/g	VDA 277
Fogging ³	98	%	ISO 6452
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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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



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