

MAGNUM™ 3504

Trinseo - ABS Resin

Sunday, November 3, 2019

General Information

Product Description

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				
Material Status	Commercial: Active			
Availability	Asia PacificEurope	 Latin America North America		
Features	 Good Processability 	High Heat Resistance	High Impact Resistance	
Uses	 General Purpose 			
Forms	• Pellets			
Processing Method	Injection Molding	 Profile Extrusion 	Sheet Extrusion	

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	1.05	g/cm³	ISO 1183/B		
Apparent (Bulk) 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 (0.126 in, Injection Molded)	310000	psi	ISO 527-2		
Tensile Stress (Yield, 0.126 in, Injection Molded)	6240	psi	ISO 527-2/50		
Tensile Strain (Yield, 0.126 in, Injection Molded)	2.7	%	ISO 527-2/50		
Flexural Modulus ^{2, 3} (0.126 in, Injection Molded)	297000	psi	ISO 178		
Flexural Stress ^{2, 3} (0.126 in, Injection Molded)	9430	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength					
-22°F, Injection Molded	6.2	ft·lb/in²	ISO 179/1eA		
-22°F, Injection Molded	4.3	ft·lb/in²	ISO 179/2C		
73°F, Injection Molded	11	ft·lb/in²	ISO 179/1eA		
73°F, Injection Molded	7.1	ft·lb/in²	ISO 179/2C		
Notched Izod Impact Strength			ISO 180/1A		
-22°F, Injection Molded	5.7	ft·lb/in²			
73°F, Injection Molded	12	ft·lb/in²			
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (264 psi, Annealed)	214	°F	ISO 75-2/A		
Vicat Softening Temperature	216	°F	ISO 306/B50		

our control, and we cannot and will not take responsibility for the information or content.



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Flammability	Nominal Value Ur	nit Test Method
Burning Rate ⁴ (0.0787 in)	2.2 in/	min ISO 3795
Flame Rating ⁴		UL 94
0.06 in	НВ	
0.12 in	НВ	
Carbon Emission	30.0 µg	l/g VDA 277
Fogging ⁴	98 %	ISO 6452

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.