

MAGNUM™ 3325 MT

ABS Resin

Trinseo

Message:

MAGNUM™ 3325 MT is a resin with excellent processing characteristics and a matt surface finish. 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

Matt/unpainted interior automotive trim

Door liners

Dashboard components

Pillar covers

Consoles

Glove boxes

General Information			
Features	Good Processability		
Uses	Automotive Applications		
	Automotive Interior Trim		
	Liners		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04	g/cm ³	ASTM D792
--	1.05	g/cm ³	ISO 1183/B
Apparent Density	0.65	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			
230°C/3.8 kg	2.5	g/10 min	ASTM D1238
220°C/10.0 kg	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	11.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow	0.40 to 0.70	%	ASTM D955
--	0.40 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2070	MPa	ASTM D638
3.20 mm, Injection Molded	2200	MPa	ISO 527-2
Tensile Strength			
Yield ²	42.3	MPa	ASTM D638
Yield, 3.20 mm, Injection Molded	43.0	MPa	ISO 527-2/50
Tensile Strain			

Yield, 3.20 mm, Injection Molded	3.3	%	ISO 527-2/50
Break ³	25	%	ASTM D638
Flexural Modulus			
-- ⁴	2210	MPa	ASTM D790
3.20 mm, Injection Molded	2100	MPa	ISO 178
Flexural Strength			
-- ⁵	64.5	MPa	ASTM D790
3.20 mm, Injection Molded	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C, Compression Molded	8.0	kJ/m ²	ISO 179/2
-30°C, Injection Molded	11	kJ/m ²	ISO 179/1eA
23°C, Injection Molded	17	kJ/m ²	ISO 179/1eA
23°C, Compression Molded	12	kJ/m ²	ISO 179/2
Notched Izod Impact			
23°C, 3.20 mm ⁶	310	J/m	ASTM D256
-30°C	10	kJ/m ²	ISO 180/1A
23°C	17	kJ/m ²	ISO 180/1A
Instrumented Dart Impact ⁷			ASTM D3763
-29°C, 3.20 mm, Peak Energy	31.7	J	
-29°C, 3.20 mm, Total Energy	34.3	J	
23°C, 3.20 mm, Peak Energy	31.1	J	
23°C, 3.20 mm, Total Energy	45.4	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	96.1	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	82.8	°C	ASTM D648
1.8 MPa, Annealed	101	°C	ISO 75-2/A
Vicat Softening Temperature			
--	108	°C	ASTM D1525
--	102	°C	ISO 306/B50
CLTE - Flow	9.4E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁸ (2.00 mm)	60	mm/min	ISO 3795
Flame Rating ⁹			UL 94
1.50 mm	HB		
3.00 mm	HB		
Carbon Emission ¹⁰	20.0	µg/g	VDA 277
Fogging ¹¹ (100°C)	98	%	ISO 6452
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		

3.	Type I, 51 mm/min
4.	Type I, 5.1 mm/min
5.	Type I, 5.1 mm/min
6.	0.25 mm Notch Depth
7.	3.39 m/sec
8.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
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