

Technical Information



MAGNUM™ CO2NET™ 3325MT BIO60 ABS Resin

Overview

Overview:

MAGNUM™ CO2NET™ 3325MT BIO60 is credited with 60% ISCC+ biobased feedstocks through mass balance certification.

MAGNUM™ CO2NET™ 3325MT BIO60 is a medium heat ABS. Its inherent low gloss combined with a high flow makes it specifically suitable for unpainted interior automotive applications.

Benefits:

- Lot to lot consistency allowing for optimal machine parameters settings from the start
- Self-coloring enabling improvement of costs by using less pigments and lowering your logistic costs
- Low VOC allowing a better interior air quality facing increasing regulatory and OEMs constraints.
- Heat stability during wide range of processing temperatures: enhanced part design freedom
- High scratch and mar resistance for an improved aesthetic durability of the parts
- Easier recyclability of unpainted part

Applications:

- Matt/unpainted interior automotive applications
- Mid-consoles
- Pillars
- Door Trims
- Glove boxes

Complies with

- ISCC+

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183
Apparent (Bulk) Density	0.65 g/cm ³	0.65 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	10 g/10 min	10 g/10 min	
230°C/3.8 kg	2.8 g/10 min	2.8 g/10 min	
Molding Shrinkage	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	268000 psi	1850 MPa	ISO 527-1/1
Tensile Stress (Yield)	5510 psi	38.0 MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.0 %	3.0 %	
Break	20 %	20 %	
Flexural Modulus ¹	268000 psi	1850 MPa	ISO 178
Flexural Stress ¹	8410 psi	58.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
73°F (23°C), Injection Molded	7.6 ft-lb/in ²	16 kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-22°F (-30°C)	4.8 ft-lb/in ²	10 kJ/m ²	
73°F (23°C)	8.1 ft-lb/in ²	17 kJ/m ²	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	174 °F	79.0 °C	ISO 75-2/A
Vicat Softening Temperature	210 °F	99.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Carbon Emission ²	35.0 µg/g	35.0 µg/g	VDA 277
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 to 194 °F	80 to 90 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

² This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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