+135-3858-6433 (GuangDong)
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Enester® EM-180-GB2-J1-000

Ravago Manufacturing Europe - Polybutylene Terephthalate

General Information

Product Description

15% Glass Bead Reinforced, Polybutylene Terephthalate Compound

Key Features: ENESTER EM-180-GB2-J1-000 is heat stabilized PBT compound with good strength and stiffness properties

Process Method: Injection moulding

Uses: Recommended for general aplications and purposes

General		
Material Status	• Commercial: Active	
Availability	• Europe	
Filler / Reinforcement	• Glass Bead, 15% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• General Purpose • Good Stiffness	• Good Strength • Heat Stabilized
Uses	• General Purpose	
Processing Method	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183/A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3500	MPa	ISO 527-1
Tensile Stress (Break)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	4.5	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	2.5	kJ/m²	ISO 179/1A
Charpy Unnotched Impact Strength	30	kJ/m²	ISO 179/1U
Notched Izod Impact Strength (23°C)	2.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	30	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	125	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	60.0	°C	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.8 mm	HB		
1.6 mm	HB		
3.2 mm	HB		

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120 to 140	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	230 to 245	°C
Middle Temperature	235 to 250	°C
Front Temperature	240 to 260	°C
Nozzle Temperature	240 to 260	°C
Mold Temperature	40 to 80	°C

Notes

[1] Typical properties: these are not to be construed as specifications.