Enester® EM-182-UF0-N0-000

Ravago Manufacturing Europe - Polybutylene Terephthalate

General Information

Product Description

Unfilled, General Purpose Polybutylene Terephthalate Compound

Key Features: ENESTER EM-182-UF0-N0-000 is a general purpose PBT compound with excellent strength and stiffness properties

Process Method: Injection moulding

Uses :Recommended for general applications in automotive,electrical and appliance sector

General			
Material Status	• Commercial: Active		
Availability	• Europe		
Features	• General Purpose	• Good Stiffness	• Good Strength
Uses	• Appliances	• Automotive Applications	• Electrical/Electronic Applications
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (240°C/2.16 kg)	45	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2300	MPa	ISO 527-1
Tensile Stress (Break)	50.0	MPa	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	3.0	kJ/m²	ISO 179/1A
Notched Izod Impact Strength (23°C)	2.5	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	150	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	50.0	°C	
Vicat Softening Temperature	175	°C	ISO 306/B50
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	225 to 235	°C
Middle Temperature	230 to 240	°C
Front Temperature	235 to 245	°C
Nozzle Temperature	235 to 245	°C
Mold Temperature	40 to 80	°C

Notes

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