



Enester® EM-555-GR5-V0-000

Ravago Manufacturing Europe - Polybutylene Terephthalate

General Information

Product Description

30% Glass Fibre Reinforced, Halogen Free, Polybutylene Terephthalate Compound

Key Features: ENESTER EM-555-GR5-V0-000 is UL 94 FR V0, high lubricant and heat stabilized PBT compound with good mechanical and impact strength properties

Process Method: Injection moulding

Uses: Recommended for E&E and automotive applications

General

Material Status	• Commercial: Active	
Availability	• Europe	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Good Impact Resistance	• Heat Stabilized
	• Halogen Free	• Lubricated
Uses	• Automotive Applications	• Electrical/Electronic Applications
Processing Method	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-1
Tensile Stress (Break)	85.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	9200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.5	kJ/m ²	ISO 179/1A
Charpy Unnotched Impact Strength	21	kJ/m ²	ISO 179/1U
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	221	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	205	°C	

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Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm		V-0	
1.6 mm	•	V-0	
	•	5VA	
3.2 mm	•	V-0	
	•	5VA	
Glow Wire Flammability Index			IEC 60695-2-12
1.0 mm		960 °C	
3.0 mm		960 °C	

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.