



Enester® EM-584-UF0-F0-000

Ravago Manufacturing Europe - Polybutylene Terephthalate

General Information

Product Description

Unfilled, Halogenated Flame Retardant, Polybutylene Terephthalate Compound

Key Features: ENESTER EM-584-UF0-F0 is a UL 94 FR V0 flame retardant, heat and UV stabilized PBT compound with good mechanical property properties

Process Method: Injection moulding

Uses: Recommended for general applications & purposes

General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• Flame Retardant • Heat Stabilizer • UV Stabilizer
Features	• Flame Retardant • Halogenated • UV Stabilized • General Purpose • Heat Stabilized
Uses	• General Purpose
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-1
Tensile Stress (Yield)	51.0	MPa	ISO 527-2
Tensile Stress (Break)	46.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	%	ISO 527-2
Tensile Strain (Break)	12	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	84.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1A
Charpy Unnotched Impact Strength	60	kJ/m ²	ISO 179/1U
Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
Deflection Temperature Under Load 1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	175	°C	ISO 306/B50
--	220	°C	ISO 306/A120

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Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm		V-0	
1.6 mm		V-0	
3.2 mm		V-0	
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.