



Enester EM-453-UF0-J1-000

ENESTER-E

Product Description : Unfilled, High Impact Modified, Polybutylene Terephthalate Compound

Key Features : ENESTER EM-453-UF0-J1-000 is heat stabilized PBT compound with excellent toughness and stiffness balance

Process Method : Injection Moulding

Uses : Recommended for general applications

Revision Date : 01.01.2023

	Value	Unit	Standard
Physical			
Density	1,21	gr / cm ³	ISO 1183 1-A
Mechanical			
Tensile Stress at Break	35	MPa	ISO 527-1
Yield Strength	40	MPa	ISO 527-1
Elongation at Break	>70	%	ISO 527-1
Tensile Modulus	1500	MPa	ISO 527-1
Izod Impact Strength (Notched) (23°C)	60	kJ/m ²	ISO 180/1A
Charpy Impact Strength (Notched)	65	kJ/m ²	ISO 179/1A
Izod Impact Strength (Unnotched)	NB	kJ/m ²	ISO 180/1A
Thermal			
HDT (0.45 Mpa)	108	°C	ISO 75B
Vicat Softening Point (120°C/10N)	125	°C	ISO 306
Flammability			
Flammability (1,6 mm)	HB	*	UL 94
Flammability (3,2 mm)	HB	*	UL 94
Flammability (0,8 mm)	HB	*	UL 94

Drying Condition



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Drying Time(hr)	2-4
Drying Temperature(°C)	120-140

Molding Condition (°C)

1st Zone (hopper)(°C)	225-235
2nd Zone(°C)	230-240
3rd Zone(°C)	235-245
Nozzle(°C)	235-245
Mold Temperature(°C)	40-80

Important Notice;

The above results are obtained from the tests conducted in Ravago Petrokimya laboratories on injection molded ISO samples and cannot be used directly to determine end-use or design specification. Datasheet values represent a statistical average of product properties and they may be subject to change as new information becomes available. Customers and other users should make their own independent determination that the product is suitable for the intended use. Ravago Petrokimya accepts no responsibility for results obtained by the application of this information and disclaims all warranties that might arise in connection with this information.