



Enester EM-451-UF0-J1-000

ENESTER-E

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

Key Features : EENESTER EM-451-UF0-J1-000 is heat stabilized PBT compound with excellent toughness and stiffness balance

Process Method : Injection Molding

Uses : Recommended for general applications

Revision Date : 01.01.2023

	Value	Unit	Standard
Physical			
Density	1,24	gr / cm3	ISO 1183 1-A
Mechanical			
Tensile Stress at Break	44	MPa	ISO 527-1
Yield Strength	45	MPa	ISO 527-1
Elongation at Break	>30	%	ISO 527-1
Tensile Modulus	2000	MPa	ISO 527-1
Izod Impact Strength (Notched) (23°C)	30	kJ/m2	ISO 180/1A
Flexural Modulus	1800	Mpa	ISO 178
Flexural Strength	72	Mpa	ISO 178
Izod Impact Strength (Unnotched)	NB	kJ/m2	ISO 180/1A
Thermal			
HDT (0.45 Mpa)	130	°C	ISO 75B
HDT (1.8 Mpa)	53	°C	ISO 75A
Vicat Softening Point (120°C/10N)	140	°C	ISO 306
Flammability			
Flammability (1,6 mm)	HB	*	UL 94
Flammability (3,2 mm)	HB	*	UL 94



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Flammability (0,8 mm)	HB	*	UL 94
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Drying Condition

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.