



# Enester® EM-453-UF0-J1-000

## Ravago Manufacturing Europe - Polybutylene Terephthalate

### General Information

#### 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

#### General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• General Purpose • Good Stiffness	• Good Toughness • Heat Stabilized	• Impact Modified
Uses	• General Purpose		
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm <sup>3</sup>	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-1
Tensile Stress (Yield)	40.0	MPa	ISO 527-2
Tensile Stress (Break)	35.0	MPa	ISO 527-2
Tensile Strain (Break)	> 70	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	65	kJ/m <sup>2</sup>	ISO 179/1A
Notched Izod Impact Strength (23°C)	60	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	108	°C	ISO 75-2/B
Vicat Softening Temperature	125	°C	ISO 306/A120
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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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

<sup>1</sup> Typical properties: these are not to be construed as specifications.