



Enester ECO® EPN-180-GR5-T2-900

PBT Industrial Quality Compound

Product Description : 30% Glass Fiber Reinforced, Fully Recycled, Black Color, Polybutylene Terephthalate and Polyethylene Terephthalate Compound

Key Features : ENESTER ECO EPN-180-GR5-T2-900 is heat and UV stabilized, lubricated PBT/PET compound with good mechanical and impact strength properties

Process Method : Injection Moulding

Uses : Recommended for automotive applications

	Value	Unit	Standard
Physical			
Density	1,54	gr / cm3	ISO 1183 1-A
Mechanical			
Tensile Stress at Break	120	MPa	ISO 527-1
Elongation at Break	2	%	ISO 527-1
Tensile Modulus	9400	MPa	ISO 527-1
Izod Impact Strength (Notched) (23°C)	8	kJ/m2	ISO 180/1A
Charpy Impact Strength (Notched)	8	kJ/m2	ISO 179/1A
Flexural Modulus	8000	Mpa	ISO 178
Flexural Strength	190	Mpa	ISO 178
Izod Impact Strength (Unnotched)	40	kJ/m2	ISO 180/1A
Charpy Impact Strength (Unnotched)	45	kJ/m2	ISO 179/1U
Thermal			
HDT (0.45 Mpa)	210	°C	ISO 75B
HDT (1.8 Mpa)	180	°C	ISO 75A
Vicat Softening Point (120°C/h & 10 N)	200	°C	ISO 306 Method A120
Flammability			
Flammability (1,6 mm)	HB	*	UL 94
Flammability (3,2 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)	230-245
2nd Zone(°C)	235-250
3rd Zone(°C)	240-260
Nozzle(°C)	240-260
Mold Temperature(°C)	40-80