



Enester ECO® EPN-180-GR5-T2-900

PBT Industrial Quality Compound

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|------------------------------|---|
| 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 |
| Revision Date : | 01.01.2023 |

| | 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 |

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.