

Lavergne VYPET VNT 335 PET 35% Glass - Mineral Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

Vypet VNT 335 is a 35% glass/mineral reinforced PET injection molding compound designed for structural applications. Features: High temperature performance; Low warp; Excellent dimensional stability. Typical Applications: Electrical / Electronic applications; Housings. Information provided by Bieglo GmbH for Lavergne Performance Compounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lavergne-VYPET-VNT-335-PET-35-Glass-Mineral-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|------------------------------------|--------------------------------------|------------|
| Density | 1.58 g/cc | 0.0571 lb/in ³ | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0050 cm/cm @Thickness 2.00 mm | 0.0050 in/in @Thickness 0.0787 in | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.0090 cm/cm @Thickness 2.00 mm | 0.0090 in/in @Thickness 0.0787 in | ASTM D955 |
| Ash | 35 % | 35 % | ASTM D2854 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|--|-----------------------|
| Tensile Strength at Break | 108 MPa | 15700 psi | 5 mm/min; ASTM D638 |
| Flexural Strength | 160 MPa | 23200 psi | 1.3 mm/min; ASTM D790 |
| Flexural Modulus | 9.40 GPa | 1360 ksi | 1.3 mm/min; ASTM D790 |
| Izod Impact, Notched | 0.600 J/cm @Temperature 23.0 Â°C | 1.12 ft-lb/in @Temperature 73.4 Â°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 215 Â°C | 419 Â°F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------------|---------------|----------|
| Feed Temperature | 260 - 265 Â°C | 500 - 509 Â°F | |
| Middle Barrel Temperature | 265 - 275 Â°C | 509 - 527 Â°F | |
| Front Barrel Temperature | 275 - 295 Â°C | 527 - 563 Â°F | |
| Nozzle Temperature | 275 - 300 Â°C | 527 - 572 Â°F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|------------------|----------|
| Mold Temperature | 215 - 300 Å°C | 520 - 572 Å°F | |
| Mold Temperature | 95.0 - 120 Å°C | 203 - 248 Å°F | |
| Injection Pressure | 55.0 - 85.0 MPa | 7980 - 12300 psi | |

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