

DuPont Performance Polymers Zytel® EFE8089B BK416 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Zytel® EFE8089B BK416 is a 33% fiber reinforced, heat stabilized, lubricated, toughened polyamide 66 resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-EFE8089B-BK416-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|------------------------------------|--------------------------------------|----------------|
| Density | 1.31 g/cc | 0.0473 lb/in ³ | DAM; ISO 1183 |
| Filler Content | 33 % | 33 % | DAM |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm @Thickness 2.00 mm | 0.0030 in/in @Thickness 0.0787 in | DAM; ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm @Thickness 2.00 mm | 0.0080 in/in @Thickness 0.0787 in | DAM; ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|--|-------------------|
| Tensile Strength at Break | 104 MPa @Temperature 23.0 °C | 15100 psi @Temperature 73.4 °F | 50%RH; ISO 527 |
| | 143 MPa @Temperature 23.0 °C | 20700 psi @Temperature 73.4 °F | DAM; ISO 527 |
| Elongation at Break | 4.5 % @Temperature 23.0 °C | 4.5 % @Temperature 73.4 °F | DAM; ISO 527 |
| | 8.5 % @Temperature 23.0 °C | 8.5 % @Temperature 73.4 °F | 50%RH; ISO 527 |
| Tensile Modulus | 6.00 GPa @Temperature 23.0 °C | 870 ksi @Temperature 73.4 °F | 50%RH; ISO 527 |
| | 8.90 GPa @Temperature 23.0 °C | 1290 ksi @Temperature 73.4 °F | DAM; ISO 527 |
| Izod Impact, Notched (ISO) | 25.0 kJ/m ² @Temperature 23.0 °C | 11.9 ft-lb/in ² @Temperature 73.4 °F | DAM; ISO 180/1A |
| | 27.0 kJ/m ² | 12.8 ft-lb/in ² | 50%RH; ISO 180/1A |

| Mechanical Properties | @Temperature 23.0 °C Metric | @Temperature 73.4 °F English | Comments |
|-------------------------|--------------------------------|---------------------------------|--------------------|
| Charpy Impact Unnotched | 9.80 J/cm ² | 46.6 ft-lb/in ² | 50%RH; ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 10.3 J/cm ² | 49.0 ft-lb/in ² | DAM; ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 2.70 J/cm ² | 12.8 ft-lb/in ² | DAM; ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 2.80 J/cm ² | 13.3 ft-lb/in ² | 50%RH; ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|--|--------|---------|-------------------------------|
| Melting Point | 262 °C | 504 °F | 10°C/min; DAM; ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 245 °C | 473 °F | DAM; ISO 75-1/-2 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------|------------------|--------------|
| Melt Temperature | 290 °C | 554 °F | DAM; Optimum |
| | 285 - 305 °C | 545 - 581 °F | |
| Mold Temperature | 70.0 °C | 158 °F | DAM; optimum |
| | 50.0 - 90.0 °C | 122 - 194 °F | |
| Drying Temperature | 80.0 °C | 176 °F | DAM |
| Dry Time | 2.00 - 4.00 hour | 2.00 - 4.00 hour | DAM |
| Moisture Content | <= 0.20 % | <= 0.20 % | DAM |

| Descriptive Properties | Value | Comments |
|------------------------|---|----------|
| Appearance | Black Color | DAM |
| Drying Recommended | Yes, if moisture content of resin exceeds recommended level | DAM |
| Filler | Glass Fiber Reinforced | DAM |
| Forms | Pellets | DAM |
| Generic | Nylon 66 | DAM |
| Material Status | Current | DAM |

| Processing Method Descriptive Properties | Injection Molding Value | DAM Comments |
|---|----------------------------|-----------------|
| Product Category | Glass Reinforced Resins | DAM |
| | Toughened Resins | DAM |
| RoHS Compliance | Contact Manufacturer | DAM |

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