

DuPont Performance Polymers Rynite® 935 BK505 Polyethylene Terephthalate (PET) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 40% Glass Reinforced

Material Notes:

35% Glass Reinforced Polyethylene Terephthalate Rynite 935 BK505 is a 35% mica/glass reinforced modified polyethylene terephthalate resin with exceptionally low warpage excellent electrical properties high stiffness and high heat resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-935-BK505-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|----------------|
| Density | 1.58 g/cc | 0.0571 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0020 cm/cm | 0.0020 in/in | ISO 294-4 2577 |
| Linear Mold Shrinkage, Transverse | 0.0070 cm/cm | 0.0070 in/in | ISO 294-4 2577 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------|-----------------------|-------------------------|
| Tensile Strength at Break | 82.0 MPa | 11900 psi | ISO 527-1/-2 |
| Elongation at Break | 2.0 % | 2.0 % | ISO 527-1/-2 |
| Tensile Modulus | 10.2 GPa | 1480 ksi | ISO 527-1/-2 |
| Flexural Strength | 132 MPa | 19100 psi | ISO 178 |
| Flexural Modulus | 9.30 GPa | 1350 ksi | ISO 178 |
| Shear Modulus | 0.561 GPa | 81.4 ksi | Dynamic; ISO 11403-1 -2 |
| | @Temperature 170 °C | @Temperature 338 °F | |
| | 0.668 GPa | 96.9 ksi | |
| | @Temperature 130 °C | @Temperature 266 °F | Dynamic; ISO 11403-1 -2 |
| | 1.867 GPa | 270.8 ksi | |
| | @Temperature 70.0 °C | @Temperature 158 °F | |
| | 2.984 GPa | 432.8 ksi | Dynamic; ISO 11403-1 -2 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| | 3.307 GPa | 479.6 ksi | |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | Dynamic; ISO 11403-1 -2 |
| | 3.701 GPa | 536.8 ksi | |

| Mechanical Properties | Metric @ Temperature -50.0 °C | English @ Temperature -58.0 °F | Dynamic: ISO 11403-1 -2 Comments |
|-------------------------|--|---|-------------------------------------|
| Charpy Impact Unnotched | 2.50 J/cm ² | 11.9 ft-lb/in ² | ISO 179/1eU |
| | 2.15 J/cm ² @Temperature -40.0 °C | 10.2 ft-lb/in ² @Temperature -40.0 °F | ISO 179/1eU |
| Charpy Impact, Notched | 0.550 J/cm ² | 2.62 ft-lb/in ² | ISO 179/1eA |
| | 0.400 J/cm ² @Temperature -30.0 °C | 1.90 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eA |
| | 0.400 J/cm ² @Temperature -40.0 °C | 1.90 ft-lb/in ² @Temperature -40.0 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|----------------------------|--------------------------|
| Melting Point | 252 °C | 486 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 240 °C | 464 °F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 °C | 392 °F | ISO 75-1/-2 |
| Flammability, UL94 | HB @Thickness 1.50 mm | HB @Thickness 0.0591 in | IEC 60695-11-10 |
| | HB @Thickness 0.800 mm | HB @Thickness 0.0315 in | IEC 60695-11-10 |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------|-----------|
| Part Marking Code | >PET-(MD+GF)35< | ISO 11469 |
| Processing | Injection Moulding | |
| Regional Availability | Asia Pacific | |
| | Europe | |
| | Global | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |
| Resin Identification | PET-(MD+GF)35 | |

| <small>UL recognition</small> Descriptive Properties | <small>UL</small> Value | Comments |
|---|----------------------------|----------|
|---|----------------------------|----------|

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