

DuPont Performance Polymers Rynite® FR515 BK507 Polyethylene Terephthalate (PET) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

Material Notes:

15% Glass Reinforced Flame Retardant Polyethylene Terephthalate Rynite FR515 BK507 is a flame retardant 15% glass reinforced modified polyethylene terephthalate. Recognized by UL as UL94V-0 at 0.8mm(0.03in). Has a 140C temp index. Excellent balance of information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-FR515-BK507-Polyethylene-Terephthalate-PET-Unverified-Data.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.55 g/cc | 0.0560 lb/in ³ | ISO 1183 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|--------------|
| Tensile Strength at Break | 100 MPa | 14500 psi | ISO 527-1/-2 |
| Elongation at Break | 2.2 % | 2.2 % | ISO 527-1/-2 |
| Tensile Modulus | 6.135 GPa | 889.8 ksi | ISO 527-1/-2 |
| Flexural Strength | 160 MPa | 23200 psi | ISO 178 |
| Flexural Modulus | 6.00 GPa | 870 ksi | ISO 178 |
| Charpy Impact Unnotched | 3.20 J/cm ² | 15.2 ft-lb/in ² | ISO 179/1eU |
| | 2.00 J/cm ² @Temperature -40.0 °C | 9.52 ft-lb/in ² @Temperature -40.0 °F | ISO 179/1eU |
| Charpy Impact, Notched | 0.620 J/cm ² | 2.95 ft-lb/in ² | ISO 179/1eA |
| | 0.600 J/cm ² @Temperature -40.0 °C | 2.86 ft-lb/in ² @Temperature -40.0 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|------------------------------|------------------------------|----------------|
| CTE, linear, Parallel to Flow | 29.0 µm/m-°C | 16.1 µin/in-°F | ISO 11359-1/-2 |
| | 33.0 µm/m-°C | 18.3 µin/in-°F | ISO 11359-1/-2 |
| | @Temperature -40.0 - 23.0 °C | @Temperature -40.0 - 73.4 °F | |
| | 19.0 µm/m-°C | 10.6 µin/in-°F | |

| Thermal Properties | @Thickness 1.50 mm, Metric Temperature 55.0 - 160 °C | @Thickness 0.0591 in, English Temperature 131 - 320 °F | ISO 11359-1/-2 Comments |
|--|---|---|----------------------------|
| CTE, linear, Transverse to Flow | 95.0 µm/m-°C | 52.8 µin/in-°F | ISO 11359-1/-2 |
| | 74.0 µm/m-°C @Temperature -40.0 - 23.0 °C | 41.1 µin/in-°F @Temperature -40.0 - 73.4 °F | ISO 11359-1/-2 |
| | 125 µm/m-°C @Temperature 55.0 - 160 °C | 69.4 µin/in-°F @Temperature 131 - 320 °F | ISO 11359-1/-2 |
| Melting Point | 254 °C | 489 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 238 °C | 460 °F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 °C | 392 °F | ISO 75-1/-2 |
| Flammability, UL94 | V-0 @Thickness 0.900 mm | V-0 @Thickness 0.0354 in | IEC 60695-11-10 |
| | 5VA @Thickness 1.50 mm | 5VA @Thickness 0.0591 in | IEC 60695-11-20 |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------|-----------|
| Part Marking Code | >PET-GF15FR< | ISO 11469 |
| Processing | Injection Moulding | |
| Regional Availability | Asia Pacific | |
| | Europe | |
| | Global | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |
| Resin Identification | PET-GF15FR(17) | |
| UL recognition | UL | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China