

DuPont Performance Polymers Crastin® SK615SF BK591 PBT (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Crastin® SK615SF BK591 is a 30% glass fiber reinforced, low viscosity polybutylene terephthalate for injection molding. It has high flow characteristics and is specifically suitable for super fast production. It is laser markable. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK615SF-BK591-PBT-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|-----------------------------------|
| Density | 1.54 g/cc | 0.0556 lb/in ³ | ISO 1183 |
| Filler Content | 30 % | 30 % | |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm | 0.011 in/in | ISO 294-4 |
| Melt Index of Compound | 20 g/10 min @Load 2.16 kg, Temperature 250 °C | 20 g/10 min @Load 4.76 lb, Temperature 482 °F | cm ³ /10 min; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|--|-------------|
| Tensile Strength at Break | 145 MPa @Temperature 23.0 °C | 21000 psi @Temperature 73.4 °F | ISO 527 |
| Elongation at Break | 2.5 % @Temperature 23.0 °C | 2.5 % @Temperature 73.4 °F | ISO 527 |
| Tensile Modulus | 10.0 GPa @Temperature 23.0 °C | 1450 ksi @Temperature 73.4 °F | ISO 527 |
| Charpy Impact, Notched | 0.800 J/cm ² @Temperature 23.0 °C | 3.81 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|--------------------------|
| Melting Point | 222 °C | 432 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 209 °C | 408 °F | ISO 75-1/-2 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------|------------------|----------------------------|
| Melt Temperature | 250 °C | 482 °F | Optimum; Injection Molding |
| | 240 - 260 °C | 464 - 500 °F | Injection Molding |
| Mold Temperature | 80.0 °C | 176 °F | optimum; Injection Molding |
| | 30.0 - 130 °C | 86.0 - 266 °F | Injection Molding |
| Drying Temperature | 110 - 130 °C | 230 - 266 °F | Injection Molding |
| Dry Time | 2.00 - 4.00 hour | 2.00 - 4.00 hour | Injection Molding |
| Moisture Content | <= 0.040 % | <= 0.040 % | Injection Molding |

| Descriptive Properties | Value | Comments |
|---------------------------|-------------------------|-------------------|
| Appearance | Black Color | |
| Drying Recommended | Yes | Injection Molding |
| Features | Flow, High | |
| | Laser markable | |
| | Molding Cycle, Fast | |
| | Viscosity, Low | |
| Filler | Glass fiber | |
| Forms | Pellets | |
| Generic | PBT | |
| Material Status | Preliminary Data | |
| Part Marking Code | >PBT-GF30< | ISO 11469 |
| Processing Method | Injection Molding | |
| Product Category | Fast Cycle Resins | |
| | Fast Cycle Resins | |
| | Glass Reinforced Resins | |
| Region Available - Global | Yes | |
| Resin Identification | PBT-GF30 | ISO 1043 |
| RoHS Compliance | Contact Manufacturer | |

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