

Polyram PlusTek PB320G3 Nylon 6, 15% Glass Fiber, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

15% glass-fiber reinforced, flame retardant polyamide 6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB320G3-Nylon-6-15-Glass-Fiber-Flame-Retardant.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------------------|---------------------------|------------------|
| Density | 1.22 g/cc | 0.0441 lb/in ³ | DIN 53479 |
| Water Absorption | 4.8 % | 4.8 % | DIN 53495 |
| Moisture Absorption at Equilibrium | 1.6 % | 1.6 % | 50%RH; DIN 53714 |
| Linear Mold Shrinkage | 0.0030 - 0.0040 cm/cm | 0.0030 - 0.0040 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R | 110 | 110 | ASTM-D785 |
| Tensile Strength, Yield | 110 MPa | 16000 psi | ASTM-D638 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM-D638 |
| Flexural Strength | 120 MPa | 17400 psi | ASTM D790 |
| Flexural Modulus | 4.80 GPa | 696 ksi | ASTM-D790 |
| Izod Impact, Notched | 1.00 J/cm @Temperature 23.0 °C | 1.87 ft-lb/in @Temperature 73.4 °F | ASTM-D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|----------------------------|-----------------------|
| Melting Point | 220 °C | 428 °F | |
| Maximum Service Temperature, Air | 110 °C | 230 °F | Continuous Use |
| | >= 200 °C | >= 392 °F | Short peaks operation |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F | DIN 53461 |
| Deflection Temperature at 1.8 MPa (264 psi) | 190 °C | 374 °F | DIN 53461 |
| Flammability, UL94 | V-0 @Thickness 3.00 mm | V-0 @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|------------|
| Volume Resistivity | 1.00e+12 ohm-cm | 1.00e+12 ohm-cm | DIN 53482 |
| Surface Resistance | 1.00e+10 ohm | 1.00e+10 ohm | DIN 53482 |
| Dielectric Constant | 4.3 | 4.3 | VDE 0303/4 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 65.0 kV/mm | 1650 kV/in | VDE 0303/4 |

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