

Polyram PlusTek PA341G9 Nylon 6.6, 45% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

45% glass fiber reinforced, high stiffness and extreme cold environment, UV stabilized polyamide 6.6 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-PA341G9-Nylon-66-45-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------------------|---------------------------|------------------|
| Density | 1.46 g/cc | 0.0527 lb/in ³ | DIN 53479 |
| Water Absorption | 3.5 % | 3.5 % | DIN 53495 |
| Moisture Absorption at Equilibrium | 1.2 % | 1.2 % | 50%RH; DIN 53714 |
| Linear Mold Shrinkage | 0.0020 - 0.0030 cm/cm | 0.0020 - 0.0030 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R | 122 | 122 | ASTM-D785 |
| Tensile Strength, Yield | 165 MPa | 23900 psi | ASTM-D638 |
| Elongation at Break | 2.5 % | 2.5 % | ASTM-D638 |
| Flexural Strength | 275 MPa | 39900 psi | ASTM D790 |
| Flexural Modulus | 12.0 GPa | 1740 ksi | ASTM-D790 |
| Izod Impact, Notched | 1.90 J/cm @Temperature 23.0 °C | 3.56 ft-lb/in @Temperature 73.4 °F | ASTM-D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|---------------------------|-----------------------|
| Melting Point | 256 °C | 493 °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) | 250 °C | 482 °F | DIN 53461 |
| Deflection Temperature at 1.8 MPa (264 psi) | 240 °C | 464 °F | DIN 53461 |
| Flammability, UL94 | HB @Thickness 3.00 mm | HB @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|------------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | DIN 53482 |
| Surface Resistance | 1.00e+13 ohm | 1.00e+13 ohm | DIN 53482 |
| Dielectric Constant | 3.7 | 3.7 | VDE 0303/4 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 90.0 kV/mm | 2290 kV/in | VDE 0303/4 |

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