

Akro-Plastic Akromid® A3 GF 35 (2421) PA 6.6 Conditioned, 35% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

AKROMID® A (Polyamide 6.6) is an engineering compound, characterized by high mechanical strength, stiffness and thermal resistance. Furthermore, this polyamide offers high toughness at low temperatures as well as easy processing. AKROMID® A is an engineering plastic compound that allows a broad range of possible applications. On the basis of these standard types, we are able to develop individual compounds for special application needs. Information from Akro-Plastic

Order this product through the following link:

http://www.lookpolymers.com/polymer_Akro-Plastic-Akromid-A3-GF-35-2421-PA-66-Conditioned-35-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-------------------------------------|------------------------------------|----------------------------|
| Density | 1.40 g/cc | 0.0506 lb/in ³ | ISOv1183 |
| Filler Content | 35 % | 35 % | ISO 1172 |
| Water Absorption | 1.8 - 2.0 % @Temperature 70.0 °C | 1.8 - 2.0 % @Temperature 158 °F | 62% r.h., Humidity; ISO 62 |
| Water Absorption at Saturation | 4.7 - 5.3 % @Time 82800 sec | 4.7 - 5.3 % @Time 23.0 hour | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0017 cm/cm | 0.0017 in/in | ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.013 cm/cm | 0.013 in/in | ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|--|-------------------------|
| Tensile Strength at Break | 145 MPa | 21000 psi | 5 [mm/min]; ISO 527-1/2 |
| Elongation at Break | 5.0 % | 5.0 % | 5 [mm/min]; ISO 527-1/2 |
| Tensile Modulus | 8.40 GPa | 1220 ksi | 1[mm/min]; ISO 527-1/2 |
| Flexural Strength | 245 MPa | 35500 psi | 2 [mm/min]; ISO 178 |
| Flexural Modulus | 8.00 GPa | 1160 ksi | 2 [mm/min]; ISO 178 |
| Charpy Impact Unnotched | 10.2 J/cm ² @Temperature 23.0 °C | 48.5 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 1.90 J/cm ² @Temperature 23.0 °C | 9.04 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|---------------|
| Melting Point | 262 °C | 504 °F | ISO 11357-1/3 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Electrical Properties | Metric | English | Comments |
| Volume Resistivity | 1.00e+10 ohm-cm | 1.00e+10 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+10 ohm | 1.00e+10 ohm | IEC 60093 |

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