

BASF Ultramid® A3HG6 Balance 30% Glass Filled PA 66/610 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Description: BASF supplies polyamide 610 for processing by injection molding under the trade name Ultramid® Balance which is produced by polycondensation of hexamethylene diamine and sebacic acid. This means that more than 60 % of the base polymer for the product family consists of sustainable raw materials. Ultramid® S Balance is highly resistant to fuels, oils and greases, to most solvents, aqueous solutions and alkalis. Its resistance to weakly acid media makes it superior to PA 6 and PA 66. Applications: Oil pans and oil filter housings Radiator end caps Components in contact with aggressive spray water Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3HG6-Balance-30-Glass-Filled-PA-66610-Conditioned.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--|--|-------------------------------|
| Density | 1.343 g/cc | 0.04852 lb/in ³ | ISO 1183 |
| Water Absorption | 3.8 % | 3.8 % | ISO 62 |
| Moisture Absorption at Equilibrium | 1.3 % | 1.3 % | ISO 62 |
| Viscosity Measurement | 150 | 150 | [cm ³ /g]; ISO 307 |
| Linear Mold Shrinkage, Flow | 0.0040 cm/cm | 0.0040 in/in | ISO 2577 |
| Linear Mold Shrinkage, Transverse | 0.010 cm/cm | 0.010 in/in | ISO 2577 |
| Melt Flow | 26.86 g/10 min @Load 5.00 kg, Temperature 275 °C | 26.86 g/10 min @Load 11.0 lb, Temperature 527 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|--|--------------|
| Tensile Strength at Break | 125 MPa | 18100 psi | ISO 527-1/-2 |
| Elongation at Yield | 5.0 % | 5.0 % | ISO 527-1/-2 |
| Modulus of Elasticity | 7.20 GPa | 1040 ksi | ISO 527-1/-2 |
| Flexural Strength | 200 MPa | 29000 psi | ISO 178 |
| Flexural Modulus | 6.70 GPa | 972 ksi | ISO 178 |
| Charpy Impact Unnotched | 9.00 J/cm ² @Temperature 23.0 °C | 42.8 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 1.40 J/cm ² @Temperature 23.0 °C | 6.66 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------------|
| Melting Point | 260 °C | 500 °F | ISO 11357-1/-3 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|-----------------------------|
| Melt Temperature | 270 - 290 °C | 518 - 554 °F | Injection molding |
| Mold Temperature | 80.0 - 90.0 °C | 176 - 194 °F | Injection molding/Extrusion |

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Commercial Status | Europe | |

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