

BASF Ultramid® S3WG6 Balance 30% Glass Filled PA 610 (Dry)

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: Overmolding metal and electronic components that come into contact with aggressive media, for example wheel speed sensors Housing and gear components where dimensional stability is a major consideration plug-in connectors, pipes and reservoirs in cooling circuits with high demands on hydrolysis resistance Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-S3WG6-Balance-30-Glass-Filled-PA-610-Dry.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Water Absorption	2.0 - 2.6 %	2.0 - 2.6 %	ISO 62
Moisture Absorption at Equilibrium	0.80 - 1.2 %	0.80 - 1.2 %	ISO 62
Viscosity Measurement	150	150	[cm ³ /g]; ISO 307
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	Test Box 1.5 mm
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 2577
Melt Flow	39.3 g/10 min @Load 5.00 kg, Temperature 275 °C	39.3 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Modulus of Elasticity	8.40 GPa	1220 ksi	ISO 527-1/-2
Flexural Strength	230 MPa	33400 psi	ISO 178
Flexural Modulus	7.90 GPa	1150 ksi	ISO 178
Charpy Impact Unnotched	8.50 J/cm ² @Temperature -30.0 °C	40.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °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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