

## BASF Ultramid® S3WG7 Balance 35% Glass Filled PA 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: 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-S3WG7-Balance-35-Glass-Filled-PA-610-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-S3WG7-Balance-35-Glass-Filled-PA-610-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.354 g/cc	0.04892 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.8 - 2.4 %	1.8 - 2.4 %	ISO 62
Moisture Absorption at Equilibrium	0.70 - 1.1 %	0.70 - 1.1 %	ISO 62
Viscosity Measurement	150	150	[cm <sup>3</sup> /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	0.010 cm/cm	0.010 in/in	ISO 2577
Melt Flow	33.85 g/10 min @Load 5.00 kg, Temperature 275 °C	33.85 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 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	180 MPa	26100 psi	ISO 178
Flexural Modulus	6.80 GPa	986 ksi	ISO 178
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup> @Temperature 23.0 °C	42.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties Charpy Impact, Notched	Metric 1.50 J/cm²	English 7.14 ft-lb/in²	Comments 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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