

BASF Ultramid® A3W2G10 BK 20560 50% Glass Filled PA66 (Dry)

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

Material Notes:

Description: 50% glass fiber reinforced injection molding grade with optimized heat ageing performance for industrial articles having very high rigidity. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3W2G10-BK-20560-50-Glass-Filled-PA66-Dry.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in ³	
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption	3.7 - 4.3 %	3.7 - 4.3 %	ISO 62
Moisture Absorption at Equilibrium	1.0 - 1.4 %	1.0 - 1.4 %	ISO 62
Viscosity Measurement	140	140	ISO 307
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	ISO 2577
Melt Flow	15.5 g/10 min @Load 5.00 kg, Temperature 275 °C	15.5 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	255 MPa	37000 psi	ISO 527-1/-2
Elongation at Break	2.8 %	2.8 %	ISO 527-1/-2
Modulus of Elasticity	16.0 GPa	2320 ksi	ISO 527-1/-2
Charpy Impact Unnotched	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ISO 11357-1/-3
Maximum Service Temperature, Air	240 °C	464 °F	
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 527-1/-2

Thermal Properties (Tensile at 1.8 MPa (264 psi))	Metric	English	Comments
Decomposition Temperature	>= 310 °C	>= 590 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	300 °C	572 °F	Feed zone
Zone 2	300 °C	572 °F	Compression
Zone 3	300 °C	572 °F	Metering-zone
Zone 4	300 °C	572 °F	Nozzle
Melt Temperature	280 - 310 °C	536 - 590 °F	Injection Molding/Extrusion
	300 °C	572 °F	Optimal
Mold Temperature	80.0 °C	176 °F	Optimal
	80.0 - 90.0 °C	176 - 194 °F	Injection Molding
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Optimal
	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	BK 20560	
Commercial Status	Europe	
Ignition Temperature	>400°C	ASTM D1929
Peripheral screw speed	< 0.3 m/s	

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