

BASF Ultramid® 8234G HS BK 102 44% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Description Ultramid 8234G HS BK-102 is heat stabilized, pigmented black, 44% glass reinforced PA6 injection molding compound offering the highest level of strength, stiffness, high temperature performance and dimensional stability. Its resistance to creep under load is excellent. It maintains its inherent chemical resistance to greases, oils and hydrocarbons. It is available in natural and black versions. Pigmented and weatherable versions may be offered on a case by case basis. Applications: consumer power tool housings, cattle ear taggers, luggage frames, fans and pressure regulator housings. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8234G-HS-BK-102-44-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.90 %	0.90 %	24 hour; ISO 62
	1.5 %	1.5 %	50% RH; ISO 62
	5.2 %	5.2 %	Saturation; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	1.18 GPa	171 ksi	ISO 178
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO 3146
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 3146
UL RTI, Electrical	140 °C	284 °F	746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	105 °C	221 °F	746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties <i>without Impact</i>	140 °C Metric	284 °F English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 305 °C	536 - 581 °F	
Mold Temperature	80.0 - 95.0 °C	176 - 203 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.060 %	<= 0.060 %	

Descriptive Properties	Value	Comments
Color	BK 102	
Commercial Status	North America	

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