

## RheTech Products G10UP100-01 10% Glass Fiber Reinforced Polypropylene, Black, UL94-HB Rated

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Glass Fiber Filler

### Material Notes:

Applications: Consumer housings Consumer goods Functional supports Injection molding conditions reported in table. Information provided by RheTech Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_RheTech-Products-G10UP100-01-10-Glass-Fiber-Reinforced-Polypropylene-Black-UL94-HB-Rated.php](http://www.lookpolymers.com/polymer_RheTech-Products-G10UP100-01-10-Glass-Fiber-Reinforced-Polypropylene-Black-UL94-HB-Rated.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.980 g/cc	0.980 g/cc	23/23°C; ASTM D792
Filler Content	10 %	10 %	ASTM D5630
Linear Mold Shrinkage	0.0048 cm/cm	0.0048 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	ASTM D2240
Tensile Strength at Break	55.8 MPa	8100 psi	2 in/min; ASTM D638
Flexural Modulus	2.48 GPa	360 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.374 J/cm @Temperature 23.0 °C	0.700 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	0.339 J	0.250 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 - 221 °C	380 - 430 °F	
Middle Barrel Temperature	199 - 227 °C	390 - 440 °F	

Front Barrel Temperature Processing Properties	204 - 232 °C Metric	400 - 450 °F English	Comments
Nozzle Temperature	210 - 221 °C	410 - 430 °F	
Mold Temperature	26.7 - 48.9 °C	80.0 - 120 °F	
Drying Temperature	65.6 - 82.2 °C	150 - 180 °F	
Dry Time	1 - 2 hour	1 - 2 hour	
Moisture Content	<= 0.050 %	<= 0.050 %	Recommended
Injection Pressure	2.76 - 10.3 MPa	400 - 1500 psi	
Hold Pressure	2.07 - 8.27 MPa	300 - 1200 psi	
Back Pressure	0.345 - 1.03 MPa	50.0 - 150 psi	

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