

## RheTech Products M40P100-01 40% Mica Reinforced Polypropylene, Black

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Mica Filler

### Material Notes:

Applications: Structural components Air ducts and dampeners 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-M40P100-01-40-Mica-Reinforced-Polypropylene-Black.php](http://www.lookpolymers.com/polymer_RheTech-Products-M40P100-01-40-Mica-Reinforced-Polypropylene-Black.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	23/23°C; ASTM D792
Filler Content	40 %	40 %	ASTM D5630
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73	73	ASTM D2240
Tensile Strength at Break	26.9 MPa	3900 psi	2 in/min; ASTM D638
Flexural Modulus	4.93 GPa	715 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.267 J/cm @Temperature 23.0 °C	0.500 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	0.565 J	0.417 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	269 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 238 °C	410 - 460 °F	
Middle Barrel Temperature	216 - 243 °C	420 - 470 °F	
Front Barrel Temperature	221 - 249 °C	430 - 480 °F	

<b>Nozzle Temperature Processing Properties</b>	<b>227 - 238 °C Metric</b>	<b>440 - 460 °F English</b>	<b>Comments</b>
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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