

## Clariant PA213M40BK Nylon 6, 40% Mineral Reinforced, Heat Stabilized, Black

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Mineral Filled , Nylon 6, Heat Stabilized

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-PA213M40BK-Nylon-6-40-Mineral-Reinforced-Heat-Stabilized-Black.php](http://www.lookpolymers.com/polymer_Clariant-PA213M40BK-Nylon-6-40-Mineral-Reinforced-Heat-Stabilized-Black.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Filler Content	40 %	40 %	ASTM D2584
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Temperature 22.8 °C	0.900 ft-lb/in @Temperature 73.0 °F	ASTM D256

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 266 °C	480 - 510 °F	
Middle Barrel Temperature	249 - 266 °C	480 - 510 °F	
Front Barrel Temperature	254 - 271 °C	490 - 520 °F	
Nozzle Temperature	254 - 274 °C	490 - 525 °F	
Melt Temperature	254 - 271 °C	490 - 520 °F	
Mold Temperature	79.4 - 121 °C	175 - 250 °F	
Dry Time	2 - 4 hour @Temperature 79.4 °C	2 - 4 hour @Temperature 175 °F	to ensure moisture content is less than 0.2%

Processing Properties	Metric	English	Comments
Injection Pressure	4.90 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 MPa	50.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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