

## Gromax BTE45-DN00N1 Nylon 6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Information provided by Gromax Enterprises Corp.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Gromax-BTE45-DN00N1-Nylon-6-Dry.php](http://www.lookpolymers.com/polymer_Gromax-BTE45-DN00N1-Nylon-6-Dry.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ISO 1183
Moisture Absorption	1.80 %	1.80 %	ISO 62
Maximum Moisture Content	0.10	0.10	Karl Fischer
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	60x60x2 mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	60x60x2 mm; ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	[N/mm <sup>2</sup> ]; ISO 7619
Tensile Strength	42.2 MPa	6120 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	220 %	220 %	50 mm/min; ISO 527
Flexural Strength	63.0 MPa	9140 psi	5 mm/min; ISO 178
Flexural Modulus	1.62 GPa	235 ksi	5 mm/min; ISO 178
Izod Impact, Notched	>= NB	>= NB	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	43.0 kJ/m <sup>2</sup>	20.5 ft-lb/in <sup>2</sup>	ISO 180-1A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	1.85 J/cm <sup>2</sup> @Temperature -30.0 °C	8.80 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179-1A
	7.20 J/cm <sup>2</sup> @Temperature 23.0 °C	34.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179-1A

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	220 Å°C Metric	428 Å°F English	10Å°C/min: ISO 11357-1,-3 Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Å°C	140 Å°F	ISO 75-1,-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	245 - 260 Å°C	473 - 500 Å°F	ISO 294
Mold Temperature	80.0 - 120 Å°C	176 - 248 Å°F	ISO 294
Drying Temperature	80.0 Å°C	176 Å°F	
Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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