

## Eurotec® Tecomid® NB30 GR15 BK005 FS90 PA6, 15% glass fiber reinforced, flame retardant - halogen & red phosphorus free, low smoke & toxic gas grade

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

### Material Notes:

Information provided by Eurotec®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurotec-Tecomid-NB30-GR15-BK005-FS90-PA6-15-glass-fiber-reinforced-flame-retardant-halogen-red-phosphorus-free-low-smoke-toxic-gas-grade.php](http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB30-GR15-BK005-FS90-PA6-15-glass-fiber-reinforced-flame-retardant-halogen-red-phosphorus-free-low-smoke-toxic-gas-grade.php)

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	1.10 % @Temperature 23.0 °C	1.10 % @Temperature 73.4 °F	50% RH; ISO 960
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1A
	7.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	10.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1U
	35.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	16.7 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	[10 K/min], ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	ISO 75
Deflection Temperature at 1.8 MPa	185 °C	365 °F	

Thermal Properties	Metric	English	ISO 75 Comments
Vicat Softening Point	205 °C	401 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	850 °C	1560 °F	GWIT; IEC 60695
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 °C	1760 °F	GWFI; IEC 60695
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 250 °C	446 - 482 °F	
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	Throat
Mold Temperature	40.0 - 90.0 °C	104 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	ISO 960
Hold Pressure	50.0 - 100 MPa	7250 - 14500 psi	

Descriptive Properties	Value	Comments
Back Pressure	Low	
Injection Speed	Medium - Fast	

## Contact Songhan Plastic Technology Co.,Ltd.

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