

## Lanxess Durethan® BM 25 FN20 700350 Nylon 6, 25% Mineral

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral Filled

### Material Notes:

PA 6, injection molding grade, 25% mineral, UL94V-2 off 0.75 mm, max. temp. glow wire test:960°C off 0.8 mm, free from halogen

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BM-25-FN20-700350-Nylon-6-25-Mineral.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BM-25-FN20-700350-Nylon-6-25-Mineral.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ISO 1183
Water Absorption	6.7 %	6.7 %	Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Melt Flow	37 g/10 min @Load 5.00 kg, Temperature 260 °C	37 g/10 min @Load 11.0 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	Conditioned; ISO 527-1/-2
	80.0 MPa	11600 psi	ISO 527-1/-2
Tensile Strength, Yield	30.0 MPa	4350 psi	Conditioned; ISO 527-1/-2
	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	70 %	70 %	Conditioned; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	ISO 527-1/-2
	8.0 %	8.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	Conditioned; ISO 527-1/-2
	5.70 GPa	827 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.80 J/cm <sup>2</sup> @Temperature 23.0 °C	18.1 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
	13.5 J/cm <sup>2</sup> @Temperature 23.0 °C	64.2 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
Melting Point	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	10 $\text{Å}^\circ\text{C}/\text{min}$ ; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	195 $\text{Å}^\circ\text{C}$	383 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	450 V	450 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Flame retarding agent	
Features	Flame retardant	
Form	Pellets	
ISO Shortname	ISO 1874-PA6,MFR,-060,MD25; ISO 1043-PA MD FR(30)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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