Lanxess DurethanÂ® BM 240 H2.0 901510 Nylon 6, 40% Mineral

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

Material Notes:

PA 6, injection molding grade, 40% mineral, isotopic properties, good heat-ageing resistance

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-BM-240-H20-901510-Nylon-6-40-Mineral.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/inÂ³	ISO 1183
Water Absorption	6.0 %	6.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.9 %	1.9 %	23Â°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	142 cmÂ³/g	142 cmÂ³/g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	23 g/10 min @Load 5.00 kg, Temperature 260 Â°C	23 g/10 min @Load 11.0 lb, Temperature 500 Â°F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	ISO 527-1/-2
Elongation at Break	7.0 %	7.0 %	ISO 527-1/-2
	40 %	40 %	Conditioned; ISO 527-1/-2
Tensile Modulus	2.20 GPa	319 ksi	Conditioned; ISO 527-1/-2
	6.00 GPa	870 ksi	ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cmÂ² @Temperature -30.0 Â°C	42.8 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	9.00 J/cmÂ² @Temperature -30.0 Â°C	42.8 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eU
	12.0 J/cmÂ² @Temperature 23.0 Â°C	57.1 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eU
	NB	NB	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eA
	<= 1.00 J/cmÂ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA
	1.20 J/cmÂ² @Temperature 23.0 Â°C	5.71 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	3052	3052	Puncture maximum force (N); ISO 6603-2
	825 @Temperature -30.0 Â°C	825 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	9.20 J	6.79 ft-lb	ISO 6603-2
	1.60 J @Temperature -30.0 Â°C	1.18 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	1.60 J @Temperature -30.0 Â°C	1.18 ft-lb @Temperature -22.0 Â°F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	222 Â°C	432 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	190 Â°C	374 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 Â°C	122 Â°F	ISO 75-1/-2
Vicat Softening Point	200 Â°C	392 Â°F	50Â°C/h 50N; ISO 306

Thermal Properties	Metric	English	Comments
Oxygen Index	25 %	26 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	IEC 60250
	4.4 @Frequency 100 Hz	4.4 @Frequency 100 Hz	IEC 60250
	4.7 @Frequency 1.00e+6 Hz	4.7 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	15 @Frequency 100 Hz	15 @Frequency 100 Hz	Conditioned; IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
	38.0 kV/mm	965 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.011 @Frequency 100 Hz	0.011 @Frequency 100 Hz	IEC 60250
	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	IEC 60250
	0.10 @Frequency 1.00e+6 Hz	0.10 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.25 @Frequency 100 Hz	0.25 @Frequency 100 Hz	Conditioned; IEC 60250
Comparative Tracking Index	525 V	525 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MHR,14-060,MD40	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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