

Lanxess Durethan® B 40 F 000000 Nylon 6, Film Grade

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Film Grade

Material Notes:

PA 6, Film grade, high viscosity, without additives or processing aids, in compliance with FDA for food contact and acc. the German BgVV Recommendation XLIV, Section VI.A" Synthetic casings in polyamide" Application Examples: flat and blown film, synthetic sausage casings, shrink bags, monofilaments

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-B-40-F-000000-Nylon-6-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	10 %	10 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	3.0 %	3.0 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	225 cm ³ /g	225 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	3 g/10 min @Load 2.16 kg, Temperature 235 ^o C	3 g/10 min @Load 4.76 lb, Temperature 455 ^o F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	Conditioned; ISO 527-1/-2
	75.0 MPa	10900 psi	ISO 527-1/-2
Elongation at Break	20 %	20 %	Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	Nominal, Conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
	25 %	25 %	Conditioned; ISO 527-1/-2
Tensile Modulus	0.800 GPa	116 ksi	Conditioned; ISO 527-1/-2
	2.80 GPa	406 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature -30.0 ^o C	NB @Temperature -22.0 ^o F	ISO 179/1eU
	NB @Temperature -30.0 ^o C	NB @Temperature -22.0 ^o F	Conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
	NB	NB	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	<= 0.500 J/cm ²	<= 2.38 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	40.0 °C	104 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	HB	HB	IEC 60695-11-10
Oxygen Index	24 %	24 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093

Surface Resistance Electrical Properties	1.00e+13 ohm Metric	1.00e+13 ohm English	IEC 60093 Comments
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.9	3.9	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	4.0	4.0	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	18	18	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874: PA 6, FN,22,030	
Processing	Film extrusion	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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