

Lanxess Durethan® BC 304 H3.0 000000 Nylon 6

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

Material Notes:

PA 6, injection molding grade, non-reinforced, elastomer-modified, extremely high notched impact strength, including in the dry state and at low temperatures, also applicable for barrier layers in extrusion blow molded containers for e.g. agrochemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BC-304-H30-000000-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Water Absorption	7.5 %	7.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	23°C/50% R.H.; Test Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	Conditioned; ISO 527-1/-2
	45.0 MPa	6530 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	Nominal, Conditioned; ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-1/-2
	30 %	30 %	Conditioned; ISO 527-1/-2
Tensile Modulus	0.800 GPa	116 ksi	Conditioned; ISO 527-1/-2
	1.80 GPa	261 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179/1eA
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	ISO 179/1eA
@Temperature 23.0 Â°C	@Temperature 73.4 Â°F		
	12.0 J/cmÂ²	57.1 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Puncture Energy	120 J	88.5 ft-lb	ISO 6603-2
	125 J	92.2 ft-lb	Conditioned; ISO 6603-2
	125 J	92.2 ft-lb	ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
125 J	92.2 ft-lb	Conditioned; ISO 6603-2	
@Temperature -30.0 Â°C	@Temperature -22.0 Â°F		

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 Âµm/m-Â°C	83.3 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	160 Âµm/m-Â°C	88.9 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)	90.0 Â°C	194 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	40.0 Â°C	104 Â°F	ISO 75-1/-2
Vicat Softening Point	150 Â°C	302 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments /-2
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.3	3.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.5	3.5	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	11	11	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0070	0.0070	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.090	0.090	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.175	0.175	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	High impact or high impact modified	

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6,MPR,-020N	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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