Lanxess DurethanÂ® BKV 25 F30 000000 Nylon 6, Glass Fiber Reinforced, Flame Retardant

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

Material Notes:

PA 6, 25% glass fibers, injection molding, flame retardantInformation provided by LANXESS.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-25-F30-000000-Nylon-6-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	60x60x2; 280Â°C / MT 80Â°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4
	0.0060 cm/cm	0.0060 in/in	60x60x2; 280Â°C / MT 80Â°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	cond.; ISO 527-1, -2; 5 mm/min
	150 MPa	21800 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	2.3 %	2.3 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	4.4 %	4.4 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	7.30 GPa	1060 ksi	cond.; ISO 527-1, -2; 1 mm/min
	11.0 GPa	1600 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	155 MPa @Strain 4.00 %	22500 psi @Strain 4.00 %	cond., 2 mm/min; ISO 178-A
	230 MPa @Strain 2.50 %	33400 psi @Strain 2.50 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	7.00 GPa	1020 ksi	cond., 2 mm/min; ISO 178-A
	10.0 GPa	1450 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/mÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	d.a.m.; ISO 180-1A

Mechanical Properties	Metric	English	Comments
	<= 10.0 kJ/mÂ²	<= 4.76 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	cond.; ISO 180-1A
	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	d.a.m.; ISO 180-1A
	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	cond.; ISO 180-1A
Izod Impact, Unnotched (ISO)	45.0 kJ/mÂ²	21.4 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	d.a.m.; ISO 180-1U
	50.0 kJ/mÂ²	23.8 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	d.a.m.; ISO 180-1U
	50.0 kJ/mÂ²	23.8 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	cond.; ISO 180-1U
	55.0 kJ/mÂ²	26.2 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	cond.; ISO 180-1U
Charpy Impact Unnotched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	d.a.m.; ISO 179-1eU
	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	cond.; ISO 179-1eU
	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	d.a.m.; ISO 179-1eU
	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	cond.; ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	d.a.m.; ISO 179-1eA
	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	
			cond.; ISO 179-1eA

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.00 J/cmÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	d.a.m.; ISO 179-1eA
	1.50 J/cmÂ² @Temperature 23.0 Â°C	7.14 ft-lb/inÂ² @Temperature 73.4 Â°F	cond.; ISO 179-1eA
Puncture Energy	1.90 J @Load <=91.8 kg, Temperature -30.0 Â°C	1.40 ft-lb @Load <=202 lb, Temperature -22.0 Â°F	ISO 6603-2
	3.00 J @Load <=102 kg, Temperature 23.0 Â°C	2.21 ft-lb @Load <=225 lb, Temperature 73.4 Â°F	ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	11.1 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 131 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)	215 Â°C	419 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75-1, -2
Vicat Softening Point	205 Â°C @Load 5.10 kg	401 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	5VA @Thickness 1.00 mm	5VA @Thickness 0.0394 in	
Glow Wire Test	775 Â°C	1430 Â°F	GWIT; IEC 60695-2-13

Thermal Properties	Metric	English	Comments
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	775 Â°C @Diameter 1.50 mm	1430 Â°F @Diameter 0.0591 in	GWIT; IEC 60695-2-13
	850 Â°C @Diameter 0.400 mm	1560 Â°F @Diameter 0.0157 in	GWIT; IEC 60695-2-13
	850 Â°C @Diameter 3.00 mm	1560 Â°F @Diameter 0.118 in	GWIT; IEC 60695-2-13
	960 Â°C @Diameter 0.400 mm	1760 Â°F @Diameter 0.0157 in	GWFI; IEC 60695-2-12
	960 Â°C @Diameter 0.800 mm	1760 Â°F @Diameter 0.0315 in	GWFI; IEC 60695-2-12
	960 Â°C @Diameter 1.50 mm	1760 Â°F @Diameter 0.0591 in	GWFI; IEC 60695-2-12
	960 Â°C @Diameter 3.00 mm	1760 Â°F @Diameter 0.118 in	GWFI; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.40e+14 ohm-cm	3.40e+14 ohm-cm	d.a.m.; IEC 60093
Surface Resistance	4.10e+13 ohm	4.10e+13 ohm	d.a.m.; IEC 60093
Comparative Tracking Index	400 V	400 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	admissible residence time at Tmax >= 10 min
	280 Â°C	536 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments

Descriptive Properties	Value	Comments
Flammability Test	passed	ISO 3795; US-FMVSS302
ISO Shortname	ISO 1874-PA 6, GFHR, 14-110, GF25; ISO 1043-PA GF FR (17)	

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