

Lanxess Durethan® DP AKV 30 FN00 DUS013 Nylon 66, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

PA 66, 30% glass fibers, injection molding, halogen free flame retardant Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-AKV-30-FN00-DUS013-Nylon-66-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0020 cm/cm	0.0020 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	cond.; ISO 527-1, -2; 5 mm/min
	120 MPa	17400 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	2.5 %	2.5 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	5.1 %	5.1 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	6.50 GPa	943 ksi	cond.; ISO 527-1, -2; 1 mm/min
	10.5 GPa	1520 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	120 MPa	17400 psi	cond., 2 mm/min; ISO 178-A
	@Strain 4.80 %	@Strain 4.80 %	
	190 MPa	27600 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 2.70 %	@Strain 2.70 %	
Flexural Yield Strength	120 MPa	17400 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	5.60 GPa	812 ksi	cond., 2 mm/min; ISO 178-A
	9.30 GPa	1350 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	d.a.m.; ISO 180-1A

Mechanical Properties	Metric	English	Comments
ISO Impact, Unnotched (ISO)	45.0 kJ/m ²	33.0 ft-lb/in ²	0.4 m, ISO 180-1U
	47.0 kJ/m ²	22.4 ft-lb/in ²	cond.; ISO 180-1U

Thermal Properties	Metric	English	Comments
Melting Point	260 Â°C	500 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	>= 250 Â°C	>= 482 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	224 Â°C	435 Â°F	ISO 75-1, -2
Vicat Softening Point	240 Â°C @Load 5.10 kg	464 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
Glow Wire Test	725 Â°C @Diameter 0.850 mm	1340 Â°F @Diameter 0.0335 in	GWIT; IEC 60695-2-13
	725 Â°C @Diameter 1.50 mm	1340 Â°F @Diameter 0.0591 in	GWIT; IEC 60695-2-13
	725 Â°C @Diameter 3.00 mm	1340 Â°F @Diameter 0.118 in	GWIT; IEC 60695-2-13
	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	5.00e+12 ohm-cm	5.00e+12 ohm-cm	cond.; IEC 60093
	5.00e+15 ohm-cm	5.00e+15 ohm-cm	d.a.m.; IEC 60093
Surface Resistance	4.00e+14 ohm	4.00e+14 ohm	cond.; IEC 60093
	3.00e+16 ohm	3.00e+16 ohm	d.a.m.; IEC 60093
Dielectric Constant	3.7	3.7	d.a.m.; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.9	3.9	d.a.m.; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.1	4.1	cond.; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	8.7	8.7	cond.; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	34.8 kV/mm	884 kV/in	cond.; IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	38.5 kV/mm	978 kV/in	d.a.m.; IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.0080	0.0080	d.a.m.; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.012	0.012	d.a.m.; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.070	0.070	cond.; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.13	0.13	cond.; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	270 Â°C	518 Â°F	for test specimens; ISO 294

Processing Properties	Metric 265 - 285 Â°C	English 509 - 545 Â°F	Comments
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 - 0.070 %	0.030 - 0.070 %	residual; Karl Fischer Test

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