

Murtfeldt Murylon® A GF Nylon 66, Glass Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Reinforced, Impact Grade

Material Notes:

Murylon® A's impressive characteristics are enhanced with admixed glass fibers. This results in a clear improvement in cold flow behavior and dimensional stability, enabling higher static pressure loads to be endured. Special Properties: • Improved compressive strength • Excellent cold flow behavior • Increased rigidity • Excellent dimensional stability • Low moisture absorption

Information provided by Murtfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Murtfeldt-Murylon-A-GF-Nylon-66-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in³	ISO 1183-1
Moisture Absorption at Equilibrium	1.7 % @Temperature 23.0 °C	1.7 % @Temperature 73.4 °F	50% RH
Water Absorption at Saturation	5.5 % @Temperature 23.0 °C	5.5 % @Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	76	76	dry; ISO 2039-2
Hardness, Shore D	82	82	DIN 53505
Ball Indentation Hardness	165 MPa	23900 psi	dry; ISO 2039-1
Tensile Strength at Break	100 MPa	14500 psi	dry; ISO 527-1
	100 MPa	14500 psi	50% RH; ISO 527-1
Elongation at Break	5.0 %	5.0 %	dry; ISO 527-1
	12 %	12 %	50% RH; ISO 527-1
Creep Strength	18.0 MPa @Time 3.60e+6 sec	2610 psi @Time 1000 hour	stress leading to 1% elongation; 50% RH; ISO 899-1
	26.0 MPa @Time 3.60e+6 sec	3770 psi @Time 1000 hour	stress leading to 1% elongation; dry; ISO 899-1
Modulus of Elasticity	3.20 GPa	464 ksi	50% RH
	5.90 GPa	856 ksi	dry
	28.0 MPa	4060 psi	

Compressive Yield Strength Mechanical Properties	Metric @Strain 1.00 %	English @Strain 1.00 %	dry; ISO 604 Comments
	55.0 MPa	7980 psi	dry; ISO 604
	@Strain 2.00 %	@Strain 2.00 %	
	90.0 MPa	13100 psi	dry; ISO 604
	@Strain 5.00 %	@Strain 5.00 %	
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	dry; ISO 179-1/1eU
	>= 5.00 J/cm²	>= 23.8 ft-lb/in²	ISO 179
Charpy Impact, Notched	0.600 J/cm²	2.86 ft-lb/in²	dry; ISO 179-1/1eA
Coefficient of Friction, Dynamic	0.35	0.35	
Sand Slurry	0.28	0.28	µm/km

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C	27.8 µin/in-°F	
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
	60.0 µm/m-°C	33.3 µin/in-°F	
	@Temperature 23.0 - 100 °C	@Temperature 73.4 - 212 °F	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft²-°F	
Melting Point	260 °C	500 °F	ISO 11357-1
Maximum Service Temperature, Air	110 °C	230 °F	
	@Time 7.20e+7 sec	@Time 20000 hour	
	120 °C	248 °F	
	@Time 1.80e+7 sec	@Time 5000 hour	
	200 °C	392 °F	
	@Time <=86400 sec	@Time <=24.0 hour	
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	
Glass Transition Temp, Tg	60.0 °C	140 °F	ISO 11357-1
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	$\geq 1.00\text{e}+13$ ohm-cm Metric	$\geq 1.00\text{e}+13$ ohm-cm English	50% RH; IEC 60093 Comments
	$\geq 1.00\text{e}+14$ ohm-cm	$\geq 1.00\text{e}+14$ ohm-cm	dry; IEC 60093
Surface Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	50% RH; IEC 60093
	$\geq 1.00\text{e}+13$ ohm	$\geq 1.00\text{e}+13$ ohm	dry; IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	dry; IEC 60250
	3.90 @Frequency 1.00e+6 Hz	3.90 @Frequency 1.00e+6 Hz	50% RH; IEC 60250
	3.9 @Frequency 100 Hz	3.9 @Frequency 100 Hz	dry; IEC 60250
	6.9 @Frequency 100 Hz	6.9 @Frequency 100 Hz	50% RH; IEC 60250
Dielectric Strength	20.0 kV/mm	508 kV/in	50% RH; IEC 60243-1
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
Dielectric Loss Index	0.012 @Frequency 100 Hz	0.012 @Frequency 100 Hz	dry; IEC 60250
	0.014 @Frequency 1.00e+6 Hz	0.014 @Frequency 1.00e+6 Hz	dry; IEC 60250
	0.040 @Frequency 1.00e+6 Hz	0.040 @Frequency 1.00e+6 Hz	50% RH; IEC 60250
	0.19 @Frequency 100 Hz	0.19 @Frequency 100 Hz	50% RH; IEC 60250

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	Black	

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