

Quadrant EPP Ertalon® 66 GF30 PA 66, 30% glass filled, extruded (ISO Data)

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

Material Notes:

Compared with virgin PA 66, this 30 % glass fibre reinforced and heat stabilised nylon grade offers increased strength, stiffness, creep resistance and dimensional stability whilst retaining an excellent wear resistance. It also allows higher max. service temperatures High mechanical strength, stiffness, hardness and toughness Good fatigue resistance High mechanical damping ability Good sliding properties Excellent wear resistance Good electrical insulating properties Good resistance to high energy radiation (gamma- and X-rays) Good machinability

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Ertalon-66-GF30-PA-66-30-glass-filled-extruded-ISO-Data.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183-1
Moisture Absorption at Equilibrium	1.7 %	1.7 %	50% RH
Water Absorption at Saturation	5.5 %	5.5 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	76	76	ISO 2039-2
Hardness, Shore D	80	80	
Ball Indentation Hardness	165 MPa	23900 psi	ISO 2039-1
Tensile Strength	85.0 MPa	12300 psi	at Yield; ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	ISO 527-1/-2
Tensile Modulus	5.00 GPa	725 ksi	ISO 527-1/-2
Compressive Strength	43.0 MPa	6240 psi	ISO 604
	@Strain 1 %	@Strain 1 %	
	77.0 MPa	11200 psi	
	@Strain 2 %	@Strain 2 %	ISO 604
	112 MPa	16200 psi	ISO 604
	@Strain 5 %	@Strain 5 %	
K Factor (ISO)	11 µm/km	11 µm/km	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179-1/1eU
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179-1/1eA

Mechanical Properties <small>Coefficient of Friction Dynamic</small>	Metric <small>0.25 - 0.40</small>	English <small>0.25 - 0.40</small>	Comments
Limiting Pressure Velocity	0.120 MPa-m/sec	3430 psi-ft/min	at 1 m/s unlubricated
	0.180 MPa-m/sec	5140 psi-ft/min	at 0.1 m/s unlubricated

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 23.0 - 100 °C	@Temperature 73.4 - 212 °F	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² - °F	
Melting Point	260 °C	500 °F	DSC, 10 $\text{°C}/\text{min}$.; ISO 11357-1/-3
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; 20,000 h
	120 °C	248 °F	Continuous; 5,000 h
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.0\text{e}+14$ ohm-cm	$\geq 1.0\text{e}+14$ ohm-cm	IEC 60093
Surface Resistivity per Square	$\geq 1.0\text{e}+13$ ohm	$\geq 1.0\text{e}+13$ ohm	IEC 60093
Dielectric Constant	3.9	3.9	IEC 60250
	@Frequency ≥ 100000 Hz	@Frequency ≥ 100000 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	
Dissipation Factor	0.012	0.012	IEC 60250
	@Frequency 100000 Hz	@Frequency 100000 Hz	
Comparative Tracking Index	475 V	475 V	IEC 60112

Compliance Properties	Metric	English	Comments
3A-Dairy	No	No	
European Food 1935/2004	No	No	
FDA	No	No	
USP Class VI	No	No	

Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Unacceptable	Unacceptable	
Acids, Weak	Limited	Limited	
Alcohols	Limited	Limited	
Alkalies, Strong (pH 11-14)	Unacceptable	Unacceptable	
Alkalies, Weak	Limited	Limited	
Chlorinated Solvents	Limited	Limited	
Continuous Sunlight	Limited	Limited	
Hot Water / Steam	Limited	Limited	
Hydrocarbons - Aliphatic	Acceptable	Acceptable	
Hydrocarbons - Aromatic	Acceptable	Acceptable	
Inorganic Salt Solutions	Acceptable	Acceptable	
Ketones, Esters	Acceptable	Acceptable	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China