SYENSQO

ALBIS

Xydar® G-930

LCP-GF30 Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Density, 73°F	1600	kg/m³	ASTM D 792
Water Absorption, 24hr	0.1	%	ASTM D 570

Mechanical Properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	15900	MPa	ASTM D 638
Tensile Strength	135	MPa	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Flexural Modulus	13400	MPa	ASTM D 790
Flexural Strength	172	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	96	J/m	ASTM D 256
Impact Strength (Izod), 1/8 in	430	J/m	ASTM D 256

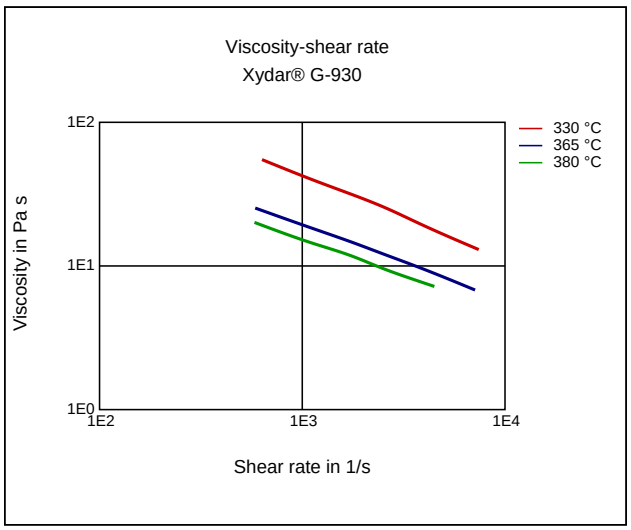
Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	282	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	305	°C	ISO 75-1/-2
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.4	mm	-
Coefficient of Thermal Expansion, MD	5.4	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	60	E-6/K	ASTM D 696
DTUL @ 66 psi	301	°C	ASTM D 648
DTUL @ 264 psi	274	°C	ASTM D 648

Electrical Properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	39	kV/mm	ASTM D 149
Dielectric Constant, 60 Hz	4.2	-	ASTM D 150
Dielectric Constant, 1 MHz	3.9	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

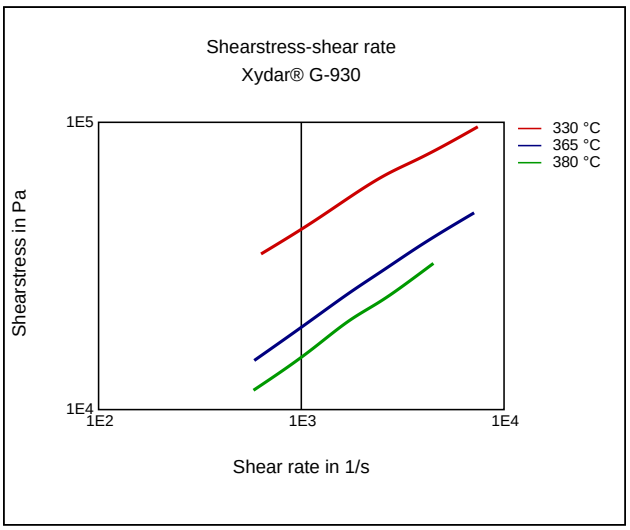
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	149	°C	-
Pre-drying - Time	6 - 8	h	-
Melt temperature	321 - 360	°C	-
Mold temperature	66 - 93	°C	-

Diagrams

Viscosity-shear rate



Shearstress-shear rate



Characteristics

Processing
Injection Molding

Features
Low Warpage

Delivery form
Pellets

Chemical Resistance
General Chemical Resistance, Radiation Resistance

Special Characteristics
Flame retardant, UV stablized

Applications
Electrical and Electronical

Disclaimer

Liability Exclusion
These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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- any critical component in any medical device that supports or sustains human life.

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