POLYNIL® C60L

Polyamide 66/6 Copolymer

Nilit Plastics

Message:

POLYNIL® C60L is an unreiforced Polyamide 66/6 (Nylon 66/6) copolymer for injection molding.
This 2.9 viscosity Polyamide 66/6 copolymer is lubricated.
POLYNIL® C60L is FDA compliant.

General Information			
Additive	Lubricant		
Features	Copolymer Lubricated		
Agency Ratings	FDA Unspecified Rating		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.13	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.7	%	
Flow : 23°C	1.5	%	
Water Absorption			ISO 62
23°C, 24 hr	1.5	%	
Saturation, 23°C	8.5	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	80.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	8.0	%	
Break, 23°C	80	%	
Flexural Modulus (23°C)	2500	MPa	ISO 178
Flexural Stress (23°C)	110	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m²	
23°C	6.5	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	No Break		
30°C	No Break		
Notched Izod Impact Strength (23°C)	6.0	kJ/m²	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			

0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature	220	°C	ISO 306/B
Ball Pressure Test			IEC 60695-10-2
125°C	Pass		
165°C	Pass		
Melting Temperature	249	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity [1]	1.0E+12	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	18	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	28	%	ISO 4589-2
Flammability [2]	SE		FMVSS 302
NOTE			
1.	23°C		
2.	355x100x1mm		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China