

POLYNIL® PR40 LHS

Polyamide 66

Nilit Plastics

Message:

POLYNIL® PR40 LHS is an unreinforced recycled Polyamide 66 (Nylon 66) from semi dull fibers for injection molding. This 2.6 viscosity Polyamide 66 resin is heat stabilized..

General Information			
Recycled Content	Yes		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.14	g/cm ³	ISO 1183
Molding Shrinkage - Flow (23°C)	1.7	%	ISO 294-4
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)	2.50	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	81.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	6.0	%	
Break, 23°C	> 40	%	
Flexural Modulus (23°C)	2100	MPa	ISO 178
Flexural Stress (23°C)	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	No Break		
30°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C	5.3	kJ/m ²	
23°C	5.8	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	°C	ISO 75-2/A
Continuous Use Temperature ¹	130	°C	IEC 60216
Vicat Softening Temperature	240	°C	ISO 306/B
Melting Temperature	258	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	1.0E+12	ohms	IEC 60093

Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	15	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-2		
3.20 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	850	°C	
3.20 mm	850	°C	
Oxygen Index	28	%	ISO 4589-2
NOTE			
1.	20000 hr		
2.	23°C		

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