

ECOMID ARX H GF40

Polyamide 66

Nilit Plastics

Message:

ECOMID® ARX H GF40 is a Polyamide 66 (Nylon 66) compound, 40% glass fiber reinforced, heat stabilized, UL listed HB.

This eco friendly compound is intended for injection molding.

ECOMID® ARX H GF40 is primarily designed for the Automotive industry.

General Information			
UL YellowCard	E172252-101977609		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.1	%	
Flow : 25°C	0.40	%	
Water Absorption			ISO 62
23°C, 24 hr	1.7	%	
Saturation, 23°C	4.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.5	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	43	kJ/m ²	
23°C	46	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	250	°C	
1.8 MPa, Unannealed	230	°C	
Continuous Use Temperature ¹	100	°C	IEC 60216
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.400 mm	HB		
0.800 mm	HB		
1.60 mm	HB		
3.20 mm	HB		
NOTE			

1.

20002 hrs

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