

Hiprolon® 70 MNWHL G50

Polyamide 610

Arkema

Message:

Hiprolon ® 70 MNWHL G50 is a polyamide 6.10 produced from a renewable source and reinforced with 50% glass fiber. This black grade is designed for injection molding.

MAIN APPLICATIONS

Injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Renewable Resource Content		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14900	MPa	ISO 527-2
Tensile Stress (Yield)	130	MPa	ISO 527-2
Tensile Strain (Break)	> 3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	13	kJ/m²	
23°C	20	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	90	kJ/m²	
23°C	95	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	221	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Melting Temperature	222	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA 610, MHLR, 27-140, GF 50		ISO 1874
Renewable Carbon Conent	> 60	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	260 to 300	°C	

Mold Temperature	60.0 to 110	°C
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