

4PROP® 9D12410 H

Polypropylene Homopolymer
4Plas

Message:

4PROP 9D12410 H is a MFI 8 10% Chemically Coupled Glass Fibre Heat Stabilised Homopolymer Polypropylene

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling		
	Homopolymer		
	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3000	MPa	ISO 527-2/5
Tensile Stress (Break, 23°C)	50.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	6.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	4.0	kJ/m ²	ISO 180/1A
23°C	6.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	130	°C	ISO 75-2/B
Vicat Softening Temperature	145	°C	ISO 306/B
Melting Temperature ²	170	°C	ISO 11357
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		UL 94
1.60 mm	HB		UL 94

Glow Wire Ignition Temperature (2.00 mm)	450	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 240	°C	
Mold Temperature	20.0 - 50.0	°C	
Injection Rate	Moderate		
Holding Pressure	40.0 - 80.0	MPa	
Screw Speed	200	rpm	
Injection instructions			
Feed Throat Temperature: 20 - 60 °CBack Pressure: Low			
NOTE			
1.	24 Hrs		
2.	10 K/min		

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