

4PROP® 9D02420 FR5HUV

Polypropylene Homopolymer
4Plas

Message:

4PROP 9D02420 FR5HUV is a MFI 4 20% Chemically Coupled Glass Fibre FR-V0 Halogen Free, Heat & UV Stabilised Homopolymer Polypropylene

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
	UV stabilizer		
Features	Chemical coupling		
	Homopolymer		
	Good UV resistance		
	Thermal Stability		
	Halogen-free		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6500	MPa	ISO 527-2/5
Tensile Stress (Break, 23°C)	70.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	7.0	kJ/m ²	ISO 180/1A
23°C	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	140	°C	ISO 75-2/A
Melting Temperature ¹	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
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

1.60 mm	V-0	UL 94
3.20 mm	V-0	UL 94
	960	

Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	825	°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 °C Back Pressure: Low

NOTE

1. 10 K/min

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