

4PROP® 9D11420 H

Polypropylene Homopolymer
4Plas

Message:

4PROP 9D11420 H is a MFI 12 20% Calcium Carbonate Filled Heat Stabilised Homopolymer Polypropylene

General Information			
Filler / Reinforcement	Calcium carbonate filler, 20% filler by weight		
Additive	heat stabilizer		
Features	Homopolymer		
	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2750	MPa	ISO 527-2/5
Tensile Stress (Break, 23°C)	30.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	10	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	3.0	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	100	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A
--	105	°C	ISO 306/B
Melting Temperature ¹	165 - 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
0.750 mm	HB		UL 94
1.60 mm	HB		UL 94

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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

