

INNOPOL® PP CS 4-8820

Polypropylene Random Copolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 4-8820 is a 20 % glass-fibre filled chemically coupled polypropylene random copolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 4-8820 is suitable for multilayer pipes.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Chemically Coupled		
	Copolymer		
Uses	Piping		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Resin ID (ISO 1043)	PP-R GF20		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.70	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/1A/50
Yield	62.0	MPa	
Break	60.0	MPa	
Tensile Strain			ISO 527-2/1A/50
Yield	5.0	%	
Break	7.0	%	
Flexural Modulus ¹	3700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1e
-20°C	9.0	kJ/m ²	
23°C	18	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-20°C	9.6	kJ/m ²	
23°C	17	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	135	°C	ISO 75-2/B
1.8 MPa, Unannealed	113	°C	ISO 75-2/A
Vicat Softening Temperature			
--	141	°C	ISO 306/A120
--	104	°C	ISO 306/B120
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.070	%	
Cylinder Zone 1 Temp.	180 to 220	°C	
Cylinder Zone 2 Temp.	180 to 220	°C	
Cylinder Zone 3 Temp.	180 to 220	°C	
Cylinder Zone 4 Temp.	180 to 220	°C	
Cylinder Zone 5 Temp.	180 to 220	°C	
Melt Temperature	200 to 220	°C	
Die Temperature	190 to 220	°C	
NOTE			
1.	2.0 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

