

INNOPOL® PP CS 4-8820 GF15

Polypropylene Random Copolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 4-8820 GF15 is a 15 % glass-fiber filled chemically coupled polypropylene random copolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 4-8820 GF15 is suitable for multilayer pipes.

General Information			
Filler / Reinforcement	Glass Fiber,15% 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 GF15		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.990	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/1A/50
Yield	55.0	MPa	
Break	51.0	MPa	
Tensile Strain			ISO 527-2/1A/50
Yield	5.0	%	
Break	7.0	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-20°C	9.0	kJ/m ²	
23°C	17	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ISO 75-2/A

Vicat Softening Temperature			
--	138	°C	ISO 306/A120
--	102	°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	

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