

TRANSMARE® 12CGF30-0.001

Polypropylene Copolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 12CGF30-0.001 is a 30% chemically coupled glass fiber reinforced polypropylene copolymer. It combines good impact properties with a high stiffness, and good flow properties. This grade contains a mould release agent.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Mold Release		
Features	Copolymer		
	Good Flow		
	Good Impact Resistance		
	Good Mold Release		
	High Stiffness		
	Recyclable Material		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.00 mm)	6080	MPa	ISO 527-2/1
Tensile Stress (Break, 4.00 mm)	75.0	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm)	3.6	%	ISO 527-2/50
Flexural Modulus	5320	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C	9.6	kJ/m ²	
23°C	14	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C	54	kJ/m ²	
23°C	52	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	11	kJ/m ²	
23°C	17	kJ/m ²	

Unnotched Izod Impact Strength			ISO 180/1U
-40°C	50	kJ/m ²	
23°C	47	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	159	°C	ISO 75-2/B
1.8 MPa, Unannealed	138	°C	ISO 75-2/A
Vicat Softening Temperature	162	°C	ISO 306/A
Injection	Nominal Value	Unit	
Suggested Max Moisture	< 0.20	%	
Rear Temperature	170	°C	
Middle Temperature	230	°C	
Front Temperature	240	°C	
Nozzle Temperature	250	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Slow-Moderate		

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