

TRANSMARE® 12CT40-0.001

Polypropylene Copolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 12CT40-0.001 is a 40% fine white talc filled polypropylene copolymer. This grade contains a mould release agent.

General Information			
Filler / Reinforcement	Talc,40% Filler by Weight		
Additive	Mold Release		
Features	Copolymer		
	Good Mold Release		
	Recyclable Material		
Appearance	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	67		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.00 mm)	3130	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 4.00 mm	23.0	MPa	
Break, 4.00 mm	22.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 4.00 mm	1.8	%	
Break, 4.00 mm	2.8	%	
Flexural Modulus	3950	MPa	ISO 178
Flexural Stress	44.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C	1.3	kJ/m ²	
23°C	2.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1U
-40°C	15	kJ/m ²	
23°C	23	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A

-40°C	1.8	kJ/m ²	
23°C	3.3	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-40°C	13	kJ/m ²	
23°C	21	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	125	°C	ISO 75-2/B
1.8 MPa, Unannealed	68.0	°C	ISO 75-2/A
Vicat Softening Temperature	151	°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	Moderate-Fast		

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