

INSPIRE™ TF1500SC

Performance Polymers

Trinseo

Message:

High impact talc filled natural PP compounded developed for covered interior automotive applications.

Can also be used for self-colouration (SC) in combination with PROMATCH™ combi-masterbatches.

INSPIRE™ TF1500 SC combines excellent processing and high impact performance. It is intended for applications requiring good balance between toughness and stiffness.

Applications

Automotive interior moulded parts

General Information			
Filler / Reinforcement	Talc filler, 16% filler by weight		
Features	Rigid, good		
	Impact resistance, high		
	Good toughness		
Uses	Application in Automobile Field		
	Car interior parts		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.5	g/10 min	ISO 1133
Molding Shrinkage	0.90 - 1.2	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1950	MPa	ISO 527-2/1
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Break)	70	%	ISO 527-2/50
Flexural Modulus	1850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
0°C	8.0	kJ/m ²	ISO 180/1A
23°C	15	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy ¹ (23°C, 3.00 mm)	70.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	110	°C	ISO 75-2/B
1.8 MPa, not annealed	58.0	°C	ISO 75-2/A

Vicat Softening Temperature	135	°C	ISO 306/A120
CLTE - Flow (-30 to 23°C)	8.5E-5	cm/cm/°C	ISO 11359-2

Additional Information

The information and data contained herein is specific to the natural (neat) product. For properties of the material in combination with PROMATCH* combi masterbatches (PP Combi Masterbatch CMPP 10.22 and CMPP 10.23) please refer to the technical data sheet for INSPIRE* TF1500 ESU.

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 - 3.0	hr
Processing (Melt) Temp	220 - 260	°C
Mold Temperature	30.0 - 60.0	°C

NOTE

1. Energy to Break

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