

# INSPIRE™ TF1305 SC

Performance Polymers

Trinseo

Message:

Talc filled (16%), high impact PP Compound.

INSPIRE\* TF1305 SC has been developed for covered interior automotive applications. Also designed for self-coloration (SC) in combination with PROMATCH\* combi-masterbatches for uncovered applications with high demanding aesthetics, scratch resistance, and UV light stabilisation. It is especially suitable for car interior applications requiring ductility, because of its high impact resistance, even at low temperature.

Applications:

- Instrument panel retainer
- Instrument panel trim
- Mid console
- Door panels
- Door pockets
- Interior trim
- Trunk trim

General Information			
Filler / Reinforcement	Talc filler, 16% filler by weight		
Features	Impact resistance, high		
	Low temperature impact resistance		
	Scratch resistance		
	Good appearance		
	ductility		
Uses	Application in Automobile Field		
	Car interior parts		
	Car dashboard		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm <sup>3</sup>	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	%	
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 <sup>2</sup>	ISO 180/1A
23°C	15	kJ/m <sup>2</sup>	ISO 180/1A
Multi-Axial Instrumented Impact Energy (23°C, Energy to Break, Toughness Failure)	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	8.5E-5	cm/cm/°C	ASTM D696
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\* TF1305 ESU.

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#### Recommended distributors for this material

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