

INSPIRE™ TF1311 SC

Performance Polymers

Trinseo

Message:

INSPIRE® TF1311 SC is a natural 16% talc filled high impact PP. It has been developed for self-coloring (SC) in combination with the PP CCUVE 4% combi-masterbatches. This material combination, called INSPIRE® TF1311 ESU, is suitable for highly demanding aesthetic automotive applications, with superior scratch resistance and UV light stabilization.

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		
	Scratch resistance		
	Good appearance		
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 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	%	
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 (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 please refer to the technical data sheet for INSPIRE* TF1311 ESU.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT