

INSPIRE™ TF1501 ESU

Performance Polymers

Trinseo

Message:

INSPIRE™ TF1501 ESU has been developed for aesthetic automotive applications with good scratch resistance and UV light stabilisation. It is especially suitable for car interiors requiring ductility at ambient temperature. It combines low density, good stiffness and impact strength whilst maintaining excellent heat resistance and processability.

Applications:

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

General Information			
Filler / Reinforcement	Filler, 10% Filler by Weight		
Additive	UV Stabilizer		
Features	Ductile		
	Good Processability		
	Good Stiffness		
	High Heat Resistance		
	High Impact Resistance		
	Pleasing Surface Appearance		
	Scratch Resistant		
Uses	Automotive Applications		
	Automotive Instrument Panel		
	Automotive Interior Parts		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	17	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 1.4	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Tensile Strain (Break)	50	%	ISO 527-2/50
Flexural Modulus	1700	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Brittleness Temperature ¹	-10.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	145	°C	ISO 306/A120
--	65.0	°C	ISO 306/B50
CLTE - Flow			ISO 11359-2
-30 to 23°C	6.5E-5	cm/cm/°C	
23 to 85°C	1.0E-4	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	mm/min	ISO 3795
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	20.0 to 60.0	°C	
NOTE			
1.	2 mm		
	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
2.			

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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



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