INSPIRE™ TF1305 ESU

Performance Polymers

Trinseo

Message:

Talc filled, high impact PP Compound. INSPIRE™ TF1305 ESU has been developed for highly demanding aesthetic automotive applications, with superior 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 and requiring very high level of scratch resistance because of the location in the car interior.

Applications:

Instrument panel retainer

Instrument panel trim

Mid console

Door panels

Door pockets

Interior trim

Trunk trim

General Information				
Filler / Reinforcement	Talc,15% Filler by Weight			
Features	Ductile			
	High Impact Resistance			
	Low Temperature Impact Resistance			
	Pleasing Surface Appearance			
	Scratch Resistant			
Uses	Automotive Applications			
	Automotive Instrument Panel			
	Automotive Interior Parts			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Density	1.02	g/cm³	ISO 1183	
Melt Mass-Flow Rate (MFR) (230°C/2.16				
kg)	9.6	g/10 min	ISO 1133	
Molding Shrinkage	0.90 to 1.2	%	ISO 294-4	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	1950	MPa	ISO 527-2/1	
Tensile Stress (Yield)	25.0	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 Strength			ISO 180/1A	
-40°C	5.0	kJ/m²		
0°C	10	kJ/m²		

23°C	25	kJ/m²	
Multi-Axial Instrumented Impact Energy	5 ,		100 000 2
(0°C, Ductile Failure)	50.0		ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	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

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