INSPIRE™ TF7000 ES

Performance Polymers

Trinseo

Message:

INSPIRE* TF7000 ES Natural Performance Polymer DA™ is a very high stiffness (2400 MPa) TPO designed for instrument panel upper and lower components, as well as other interior trim applications where stiffness, good impact resistance, and good molded-in-color part aesthetics are important. Its high melt flow rate also allows for rapid filling of large parts in the injection molding process.
Main Characteristics:
Excellent Surface Aesthetics
Good Scratch & Mar Resistance
Instrument Panel Uppers/Lowers
Interior Trim Applications
High Flow
Approved on DaimlerChrylser MS-DC265D

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Impact Resistance High Flow High Stiffness 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**
Specific Gravity	1.03	g/cm^3	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Flexural Modulus [1]	2400	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (23°C)	29	kJ/m^2	ISO 180/1A
Instrumented Dart Impact [2]			ASTM D3763
0°C, Ductile	29.0	J	
23°C, Ductile	23.0	J	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	107	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	61.0	°C	ISO 75-2/Af
Flammability	Nominal Value	Unit	Test Method
Burning Rate [3]	48	mm/min	FMVSS 302
NOTE			
1.	2.0 mm/min		
2.	6.60 m/sec		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

Recommended distributors for this material

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