

INSPIRE™ DTF8000ES

Experimental Compounded Polypropylene

Trinseo

Message:

INSPIRE™ TF 8000 ES is a superior scratch and mar resistant low gloss talc filled interior grade TPO exhibiting excellent low temperature ductility, high modulus and heat performance.

Main Characteristics:

Interior grade TPO

Talc filled

High modulus

Low temperature ductility

Scratch and mar resistant

Molded in color and accent paint capable

General Information			
Filler / Reinforcement	Talc,18% Filler by Weight		
Features	Ductile		
	Low Gloss		
	Scratch Resistant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	24.8	MPa	ISO 527-2/50
Flexural Modulus ¹	2220	MPa	ISO 178
Scratch Resistance - Instrumented			ASTM D7027-05
-- ²	26	N	
-- ³	31	N	
Five Finger Scratch ⁴	15	N	FLTM BN108-13
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	3.8	kJ/m ²	
23°C	28	kJ/m ²	
Instrumented Dart Impact ⁵			ASTM D3763
0°C, 3.20 mm, Fully Ductile	28.4	J	
23°C, 3.20 mm, Fully Ductile	21.6	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	113	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	57.0	°C	ISO 75-2/Af

Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁶	30	mm/min	ISO 3795
NOTE			
1.	2.0 mm/min		
2.	Textured		
3.	Smooth		
4.	GMW3383		
5.	6.70 m/sec		
6.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

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