

INSPIRE™ TF0808

Performance Polymers

Trinseo

Message:

INSPIRE™ TF0808S(U) is a 5 % talc filled PP exhibiting high flow characteristics in combination with a high impact resistance and a high stiffness. It is particularly well suited for low wall thickness bumper skins.

This grade is proposed in two versions:

INSPIRE TF0808S for painted parts

INSPIRE TF0808SU for unpainted parts with a UV stabilization package

Application areas:

Bumper skins

Bumper strips

General Information			
Filler / Reinforcement	Talc,5.0% Filler by Weight		
Features	High Flow		
	High Impact Resistance		
	High Stiffness		
Uses	Automotive Bumper		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	17	g/10 min	ISO 1133
Molding Shrinkage	0.80 to 1.0	%	ISO 294-4
Shrinkage - Total	1.0 to 1.2	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	> 400	%	ISO 527-2
Flexural Modulus	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	4.0	kJ/m ²	
23°C	45	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	4.0	kJ/m ²	
23°C	42	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	80.0	°C	ISO 75-2/B

1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/A120
CLTE - Flow			DIN 53752
-30 to 25°C	6.3E-5	cm/cm/°C	
25 to 80°C	9.3E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	190 to 260	°C	
Mold Temperature	20.0 to 60.0	°C	

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