

PULSE™ 630GF

PC/ABS Engineering Resin

Trinseo

Message:

PULSE 630GF is a 13% glass filled PC/ABS resin, available in standard black. It combines very high stiffness, low CLTE, excellent processability, good foam adhesion and long term heat stability. Its thermal resistance allows parts to meet the most severe sunload and temperature conditions in car interiors. The resin also allows for excellent post operations like stamping, transportation and stacking. Scrap generation during post processing is significantly below the levels obtained with glass filled SMA. To ensure low carbon emission characteristics and high thermal stability this product is based on the Company's unique mass ABS technology.

PULSE 630GF is especially suitable for instrument panel retainers which are to be foamed, air ducts etc.

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Features	Good Adhesion		
	Good Processability		
	Good Thermal Stability		
	High Stiffness		
Uses	Automotive Applications		
	Automotive Interior Parts		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	19	g/10 min	ISO 1133
Molding Shrinkage	0.30 to 0.40	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4700	MPa	ISO 527-2/1
Tensile Stress (Yield)	82.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	2.8	%	
Break	3.3	%	
Flexural Modulus ¹	4700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	9.0	kJ/m ²	ISO 180/4A
Multi-Axial Instrumented Impact Energy (23°C, Total Penetration Energy)	8.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	122	°C	ISO 75-2/B

1.8 MPa, Unannealed	113	°C	ISO 75-2/A
CLTE			ASTM D696
Flow : -30 to 80°C	3.5E-5	cm/cm/°C	
Transverse : -30 to 80°C	6.0E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Carbon Emission	10.0	µg/g	VDA 277
NOTE			
1.	2.0 mm/min		

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