

Technical Data Sheet

ECOTRAN® E 5060G NC AS

Polyphenylene Sulfide
Engineering Plastics



Product Description

PPS 40% glass fibre reinforced + 25% mineral

General

Filler / Reinforcement	• Glass\Mineral, 65% Filler by Weight		
Features	• Antimony Free • Filled • Flame Retardant • Good Dimensional Stability • Halogen Free	• Heat Stabilized • High Flow • Hydrolysis Resistant • Impact Modified • Laser Markable	• Laser Weldable • Low Smoke Emission • Low Warpage
Processing Method	• Blow Molding • Extrusion	• Gas-Assisted Injection Molding • Injection Molding	• Water-Assisted Injection Molding
Resin ID (ISO 1043)	• PPS (GF+MD)65		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.96 g/cm³	1.96 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	12 cm³/10min	12 cm³/10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	2.90E+6 psi	20000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	19600 psi	135 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.0 %	1.0 %	ISO 527-2/1A/5
Flexural Modulus ¹	2.90E+6 psi	20000 MPa	ISO 178
Flexural Stress ^{1,2} (1.3% Strain)	31900 psi	220 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.8 ft·lb/in²	8.0 kJ/m²	
73°F (23°C)	3.8 ft·lb/in²	8.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	9.5 ft·lb/in²	20 kJ/m²	
73°F (23°C)	9.5 ft·lb/in²	20 kJ/m²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/Af
264 psi (1.8 MPa), Unannealed	518 °F	270 °C	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Comparative Tracking Index	175 V	175 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate ³			
0.0787 in (2.00 mm)	0.0 in/min	0.0 mm/min	ISO 3795
0.0787 in (2.00 mm)	0.0 in/min	0.0 mm/min	FMVSS 302

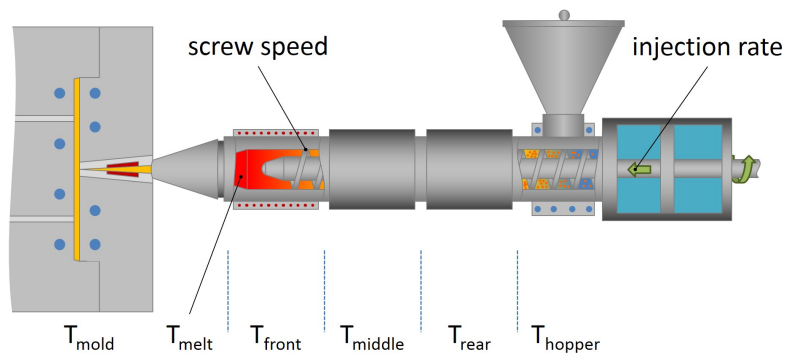
Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	284 °F	140 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	563 to 617 °F	295 to 325 °C
Mold Temperature	275 to 293 °F	135 to 145 °C

Notes

¹ 0.079 in/min (2.0 mm/min)

² at Break

³ Self-Extinguishing

Notes

These are typical property values not to be construed as specification limits.