

Technical Information



PULSE™ GX70 ECO PC/ABS Engineering Resin

Overview

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PULSE™ GX70 ECO is a PC/ABS blend which contains 50% recycling content according to ISO14021. A high quality and consistency level like for the standard PULSE™ GX70 is achieved for this resin. It combines consistent and easy processability with good low temperature impact resistance. The heat resistance is tailor made to resist most automotive interior and exterior component requirements. The grade is only available in standard black.

Benefits

- Contains 50% recycling content according to ISO14021
- Easy processability, heat performance and low temperature impact equivalent to PULSE™ GX70

Applications:

- Automotive interior and exterior parts

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.11 g/cm ³	1.11 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	16 g/10 min	16 g/10 min	ISO 1133
Spiral Flow ¹	18.5 in	47.0 cm	
Molding Shrinkage	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
VOC Content	12.0 µg/g	12.0 µg/g	VDA 277
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	312000 psi	2150 MPa	ISO 527-1/1
Tensile Stress (Yield)	7110 psi	49.0 MPa	ISO 527-2/50
Tensile Strain (Break)	> 80 %	> 80 %	ISO 527-2/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	24 ft·lb/in ²	50 kJ/m ²	
73°F (23°C)	26 ft·lb/in ²	55 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	208 °F	98.0 °C	
Vicat Softening Temperature	243 °F	117 °C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	4.2E-5 to 4.4E-5 in/in/°F	7.5E-5 to 8.0E-5 cm/cm/°C	ISO 11359-2
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	212 °F	100 °C	
Drying Time	4.0 hr	4.0 hr	
Processing (Melt) Temp	491 to 536 °F	255 to 280 °C	
Mold Temperature	140 to 176 °F	60 to 80 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Melt Temperature: 500°F (260°C), Injection Pressure: 2.61E+4 psi (1.80E+3 bar)

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