

Technical Information



PULSE™ GX70

PC/ABS Engineering Resin

Overview

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PULSE™ GX70 is an easy flow, high-heat, low gloss PC/ABS resin delivering optimized performance for automotive interior component applications.

Benefits

- Low gloss allowing paint-less visible applications
- Low density driving to lighter and cost optimized parts
- Easy flow, reduced scrap, and faster cycle times, while enabling thin wall part design for mass reduction.
- High-impact strength even at low temperature
- Medium heat resistance optimized for the majority of automotive interior components
- Consistent natural white color produces high quality part appearance when used with color concentrates (self coloring) or Trinseo Color Masterbatch Technology
- Low odor & VOC to meet all global Automotive OEM specifications

Applications

- Mid (floor)consoles
- Instrument Panel components
- Door panel trim
- Pillars
- Storage / load floors / glove box

Automotive Specifications

- BMW GS 93016
- DAIMLER DBL 5404.84
- GM GMW15581P-ABS+PC-T2
- JLR STJLR.51.353
- JLR STJLR.51.5262
- TESLA TM-1003 10/20
- VAG VW-TL 52231 A
- VOLVO STD 1212,86
- DAIMLER DBL 5404.28
- FORD WSS-M4D924-B1
- GM GMW15581P-ABS+PC-T5
- JLR STJLR.51.5229
- PSA Peugeot-Citroën FTM 62 0033
- TOYOTA TSM 5526G-1
- VOLKSWAGEN TL 522 31-A

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.11 g/cm ³	1.11 g/cm ³	ISO 1183
Apparent (Bulk) Density	0.64 g/cm ³	0.64 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	18 g/10 min	18 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 264 psi (1.8 MPa), Unannealed	208 °F	98.0 °C	ISO 75-2/A
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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