

Technical Information



PULSE™ GX90

PC/ABS Engineering Resin

Overview

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PULSE™ GX90 is a super low temperature ductile, high-heat, low gloss PC/ABS resin delivering optimized performance for automotive interior component applications.

Benefits

- Outstanding high-impact strength even at low temperature
- High Heat resistance for demanding 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 5404.85
- GM GMW15581P-ABS+PC-T3
- JLR STJLR.51.353
- JLR STJLR.51.5262
- VAG VW-TL 52231 B
- VOLVO STD 1212,86
- DAIMLER DBL 5404.29
- FORD WSS-M4D585-C1
- GM GMW15581P-ABS+PC-T6
- JLR STJLR.51.5229
- RENAULT AS33
- VOLKSWAGEN TL 522 31-B

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.12 g/cm³	1.12 g/cm³	ISO 1183
Apparent (Bulk) Density	0.65 g/cm³	0.65 g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	17 g/10 min	17 g/10 min	ISO 1133
Spiral Flow ¹	16.1 in	41.0 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	326000 psi	2250 MPa	ISO 527-1/1
Tensile Stress (Yield)	7250 psi	50.0 MPa	ISO 527-2/50
Tensile Strain (Break)	110 %	110 %	ISO 527-2/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	21 ft·lb/in²	45 kJ/m²	
73°F (23°C)	26 ft·lb/in²	55 kJ/m²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	223 °F	106 °C	
Vicat Softening Temperature	253 °F	123 °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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