

PULSE™ GX50 PC/ABS Engineering Resin

Overview

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PULSE™ GX50 is an easy flow, medium-heat, low gloss and low density 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
- 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
- · Lower Instrument Panel components
- · Door panel trim
- Pillars
- · Storage / load floors / glove box

Automotive Specifications

- BMW GS 93016
- GM GMW15581P-ABS+PC-T1
- HONDA HSM-C4-G (EU)
- JLR STJLR.51.5229
- VOLKSWAGEN TL 522 31
- DAIMLER DBL 5404.83
- GM GMW15581P-ABS+PC-T4
- JLR STJLR.51.353
- JLR STJLR.51.5262
- PSA Peugeot-Citroën FTM 62 0008
 TESLA TM-1003 10/20
 - VOLVO STD 1212,86

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.09	g/cm³	1.09	g/cm³	ISO 1183
Apparent (Bulk) Density	0.63	g/cm³	0.63	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	12	g/10 min	12	g/10 min	ISO 1133
Spiral Flow ¹	19.7	in	50.0	cm	
Molding Shrinkage	4.0E-3 to 7.0E-3	in/in	0.40 to 0.70	%	ISO 294-4
VOC Content	15.0	μg/g	15.0	μg/g	VDA 277
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Modulus ²	290000	psi	2000	MPa	ISO 527-2
Tensile Stress (Yield)	6380	psi	44.0	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/in²	50	kJ/m²	
73°F (23°C)	29	ft·lb/in²	60	kJ/m²	
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Heat Deflection Temperature					ISO 75-2/A
264 psi (1.8 MPa), Unannealed	194	°F	90.0	°C	
Vicat Softening Temperature	225	°F	107	°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

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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.

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

² 0.039 in/min (1 mm/min)



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