

PULSE™ 920 MG PC/ABS Engineering Resin

Overview

An inherently matt medium heat, medium impact PC/ABS resin, PULSE™ 920 MG is designed for interior automotive applications where a matt aesthetic is required. Proprietary low gloss technology allows this unique combination of maximum low gloss aesthetics and physical properties.

Automotive Specifications

- DAIMLER DBL 5404.28
- JLR STJLR.51.353
- JLR STJLR.51.5229
- JLR STJLR.51.5262
- VOLKSWAGEN TL 522 31-A

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.12 g/cm ³	1.12 g/cm ³	ISO 1183/B
Apparent (Bulk) Density	0.65 g/cm ³	0.65 g/cm ³	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	20.1 in	51.0 cm	
Molding Shrinkage	3.5E-3 to 4.5E-3 in/in	0.35 to 0.45 %	ISO 294-4
VOC Content	9.00 µg/g	9.00 µg/g	VDA 277
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	326000 psi	2250 MPa	ISO 527-2/1
Tensile Stress (Yield)	7250 psi	50.0 MPa	ISO 527-2/50
Tensile Strain (Break)	100 %	100 %	ISO 527-2/50
Flexural Modulus ²	305000 psi	2100 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.3 ft-lb/in ²	7.0 kJ/m ²	
73°F (23°C)	10 ft-lb/in ²	22 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	221 °F	105 °C	
Vicat Softening Temperature	252 °F	122 °C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	4.1E-5 in/in/°F	7.3E-5 cm/cm/°C	ISO 11359-2
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	221 °F	105 °C	
Drying Time	4.0 hr	4.0 hr	
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C	
Mold Temperature	158 to 194 °F	70 to 90 °C	