

PULSE™ GX50 NAB

PC/ABS Engineering Resin

Overview

PULSE™ GX50 NA is a very low gloss appearance engineering resin which has exceptional impact strength even at low temperatures and has sufficient heat resistance for the majority of automotive interior components. This resin provides excellent flow, has low odor & VOC values and is self colorable. This material has superior low gloss performance over typical PC/ABS.

Applications: PULSE GX50 NAB is used in a wide range of applications where low temperature toughness and tailor made heat resistance is required.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.09 g/cm³	1.09 g/cm³	ISO 1183/B
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	22.8 in	58.0 cm	
Molding Shrinkage	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
VOC Content	10.0 µg/g	10.0 µg/g	VDA 277
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-2
Tensile Stress (Yield)	6240 psi	43.0 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)	24 ft·lb/in²	50 kJ/m²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	196 °F	91.0 °C	
Vicat Softening Temperature	228 °F	109 °C	ISO 306/B50
CLTE - Flow	4.2E-5 in/in/°F	7.5E-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	158 to 176 °F	70 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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