

PULSE™ 2000 EZ

PC/ABS Engineering Resin

Overview

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PULSE™ 2000EZ is a high-heat PC/ABS resin delivering optimized performance for automotive interior component applications.

Benefits

- Easy flow, reduced scrap, and faster cycle times, while enabling thin wall part design for mass reduction.
- 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

- 3M 11-0003-5762-1
- CHRYSLER MS-DB-195 CPN2967
- CHRYSLER MS-DB-195 CPN3401
- CHRYSLER MS-DB-195 CPN4598
- DAIMLER DBL 5404.29
- GM GMW15581P-ABS+PC-T3
- RNPO AS33
- TOYOTA TSM 5526G-2
- VOLKSWAGEN TL 522 31-A
- BMW GS 93016
- CHRYSLER MS-DB-195 CPN3159
- CHRYSLER MS-DB-195 CPN3408
- DAIMLER DBL 5404.28
- FORD WSS-M4D585-C1
- GM GMW15581P-ABS+PC-T6
- TESLA TM-1003 10/20
- VOLKSWAGEN TL 522 31
- VOLKSWAGEN TL 522 31-B

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.13 g/cm ³	1.13 g/cm ³	ISO 1183/B
Apparent (Bulk) Density	0.66 g/cm ³	0.66 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	25 g/10 min	25 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
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ² (Injection Molded)	363000 psi	2500 MPa	ISO 527-2
Tensile Stress (Yield)	7400 psi	51.0 MPa	ISO 527-2/50
Tensile Strain (Break)	120 %	120 %	ISO 527-2/50
Flexural Modulus ³	334000 psi	2300 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength ⁴			ISO 179
-22°F (-30°C)	12 ft-lb/in ²	25 kJ/m ²	
73°F (23°C)	24 ft-lb/in ²	50 kJ/m ²	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	223 °F	106 °C	ISO 75-2/A
Vicat Softening Temperature	262 °F	128 °C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	4.2E-5 in/in/°F	7.5E-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

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Mold Temperature: 140°F (60°C), Melt Temperature: 500°F (260°C), Injection Pressure: 2.61E+4 psi (1.80E+3 bar)

² 0.039 in/min (1 mm/min)

³ 0.079 in/min (2.0 mm/min)

⁴ Type 1, Edgewise, Notch A



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