

Technical Information



PULSE™ 220

PC/ABS Engineering Resin

Overview

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PULSE™ 220 is a middle heat, amorphous thermoplastic PC/ABS. PULSE™ 220 is delivering optimized performance for automotive interior component applications as well as exterior component applications.

Benefits

- Good flow, reduced scrap, and faster cycle time.
- High impact strength.
- Low odor & VOC.

Applications

- Middle consoles
- Instrument Panel components
- Door panel trims
- Pillars
- Storage & glove box.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.11 g/cm ³	1.11 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.0 g/10 min	3.0 g/10 min	ISO 1133
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	319000 psi	2200 MPa	ISO 527-1/1
Tensile Stress			ISO 527-2/50
Yield	7250 psi	50.0 MPa	
Break	6670 psi	46.0 MPa	
Tensile Strain			ISO 527-2/50
Yield	4.0 %	4.0 %	
Break	100 %	100 %	
Flexural Modulus ¹	326000 psi	2250 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	19 ft-lb/in ²	40 kJ/m ²	
73°F (23°C)	33 ft-lb/in ²	70 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	212 °F	100 °C	
Vicat Softening Temperature	248 °F	120 °C	ISO 306/B50
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 0.079 in/min (2.0 mm/min)

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