

PULSE™ XT7215

PC/ABS Engineering Resin

Overview

PULSE™ XT7215 is an easy flow, high-heat, low density mineral filled PC/ABS resin delivering optimized performance for automotive exterior component applications requiring low CLTE for a better dimensional stability.

Benefits

- Very low CLTE for an improved dimensional stability (smaller gaps) and a better fit and finish for optimal quality
- High ductility and easy flow for more design freedom (larger/longer parts, optimized wall thickness) and better economics (improved cycle time)
- Significant density advantage (up to 10% compared to a PC/PET) for lighter parts and optimized costs
- Faster cycle times for a better process cost control
- High gloss for painted applications with enhanced paint adhesion

Applications

- Roof Spoilers
- Spoilers
- Exterior trims
- Roof bows
- Roof rails

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm ³	1.25 g/cm ³	ISO 1183/B
Apparent (Bulk) Density	0.63 g/cm ³	0.63 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	29 g/10 min	29 g/10 min	ISO 1133
Spiral Flow ^{1, 2}	21.3 in	54.0 cm	
Molding Shrinkage	3.0E-3 to 6.0E-3 in/in	0.30 to 0.60 %	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 ³	667000 psi	4600 MPa	ISO 527-2
Tensile Stress (Yield)	8410 psi	58.0 MPa	ISO 527-2/50
Tensile Strain (Break)	20 %	20 %	ISO 527-2/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.8 ft·lb/in ²	8.0 kJ/m ²	
73°F (23°C)	9.5 ft·lb/in ²	20 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	219 °F	104 °C	
Vicat Softening Temperature	252 °F	122 °C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	1.9E-5 in/in/°F	3.5E-5 cm/cm/°C	ISO 11359-2
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	248 °F	120 °C	
Drying Time	5.5 hr	5.5 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 Melt Temperature: 500°F (260°C), Injection Pressure: 2.61E+4 psi (1.80E+3 bar)

² 2 mm thickness

³ 0.039 in/min (1 mm/min)



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