

PULSE™ XT7215

PC/ABS Engineering Resin

Overview

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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

Automotive Specifications

- BMW GS 93016
- CHRYSLER MS-DB-300 CPN 5155
- TOYOTA TSM 5526G-2

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm ³	1.25 g/cm ³	ISO 1183
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)	24 g/10 min	24 g/10 min	ISO 1133
Spiral Flow ¹	20.5 in	52.0 cm	
Molding Shrinkage	2.0E-3 to 6.0E-3 in/in	0.20 to 0.60 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	609000 psi	4200 MPa	ISO 527-1/1
Tensile Stress (Yield)	7540 psi	52.0 MPa	ISO 527-2/5
Tensile Strain (Break)	15 %	15 %	ISO 527-2/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft-lb/in ²	10 kJ/m ²	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	221 °F	105 °C	ISO 75-2/A
Vicat Softening Temperature	252 °F	122 °C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	1.9E-5 to 2.2E-5 in/in/°F	3.5E-5 to 4.0E-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)

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