

PULSE™ XT70 PC/ABS Engineering Resin

Overview

PULSE™ XT70 is a very easy flow, high-heat, high gloss and low density PC/ABS resin, delivering optimized performance for automotive exterior component applications.

Benefits

- High gloss and meeting exterior paintability requirements.
- Low density driving to lighter and cost optimized parts.
- Very easy flow, reduced scrap, and faster cycle times, while enabling thin wall part design for mass reduction.
- Heat resistance optimized for the majority of automotive exterior applications.

Applications

- Spoilers
- Side mirrors
- Front grills
- Exterior trims

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.11 g/cm ³	1.11 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	24.8 in	63.0 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	341000 psi	2350 MPa	ISO 527-1/1
Tensile Stress (Yield)	7260 psi	50.0 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)	9.6 ft·lb/in ²	20 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
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	212 °F	100 °C	
Vicat Softening Temperature	245 °F	118 °C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	4.2E-5 to 4.4E-5 in/in/°F	7.5E-5 to 8.0E-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	140 to 176 °F	60 to 80 °C	