TRINSEO™

PULSE™ XT50
PC/ABS Engineering Resin

Overview

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PULSE™ XT50 is a very easy flow, medium-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	1.10	g/cm³	1.10	g/cm³	ISO 1183
Apparent (Bulk) Density	0.63	g/cm³	0.63	g/cm³	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, 2]	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	334000	psi	2300	MPa	ISO 527-1/1
Tensile Stress (Yield)	6820	psi	47.0	MPa	ISO 527-2/50
Tensile Strain (Break)	50	%	50	%	ISO 527-2/50
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	12	ft·lb/in²	25	kJ/m²	
73°F (23°C)	24	ft·lb/in²	50	kJ/m²	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ISO 75-2/A
264 psi (1.8 MPa), Unannealed	201	°F	94.0	°C	
Vicat Softening Temperature	232	°F	111	°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