TRINSEO™

PULSE™ A35-110
PC/ABS Engineering Resin

Overview

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PULSE™ A35-110 is a super high-heat PC/ABS resin delivering optimized performance for automotive interior component applications.

Benefits

- High-impact strength even at low temperature
- Very High heat resistance for demanding automotive interior components
- Consistent natural white color produces high quality part appearance when used with color concentrates (self coloring) or Trinseo Color Masterbatch Technology
- Low odor & VOC to meet all global Automotive OEM specifications

Applications

- Mid (floor)consoles
- Instrument Panel components
- Door panel trim
- Pillars
- Storage / load floors / glove box

Automotive Specifications

- MERCEDES BENZ DBL 5404.29
- VAG VW-TL 52231 B
- VOLKSWAGEN TL 52231-B
- STELLANTIS ABS/PC-0004
- VOLKSWAGEN TL 52231-A

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.16	g/cm³	1.16	g/cm³	ISO 1183
Apparent (Bulk) Density	0.67	g/cm³	0.67	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	14	g/10 min	14	g/10 min	ISO 1133
Spiral Flow [1]	15.4	in	39.0	cm	
Molding Shrinkage	4.0E-3 to 7.0E-3	in/in	0.40 to 0.70	%	ISO 294-4
VOC Content	10.0	µg/g	10.0	µg/g	VDA 277
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus	334000	psi	2300	MPa	ISO 527-1/1
Tensile Stress (Yield)	8120	psi	56.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 80	%	> 80	%	ISO 527-2/50
Flexural Modulus [2, 3]	319000	psi	2200	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	17	ft·lb/in²	35	kJ/m²	
73°F (23°C)	21	ft·lb/in²	45	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	230	°F	110	°C	
Vicat Softening Temperature	270	°F	132	°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