TRINSEO™

PULSE™ 2100LG
PC/ABS Engineering Resin

Overview

PULSE™ 2100LG Engineering Resin is designed to provide top performance in tough applications, from single piece items to intricate components. Ideal for energy management solutions, it can withstand high and low temperature extremes and rapid, repeated temperature fluctuations.

Benefits:

- Low gloss appearance
- Low temperature ductility
- Wide range of performance
- Superior processability
- Lot to lot consistency
- Good chemical resistance

Automotive Specifications

- 3M 11-0003-5762-1
- GM GMW15581P-ABS+PC-T1
- VAG VW-TL 52231 A
- VOLKSWAGEN TL 52231-A
- FORD WSS-M4D924-B1
- STELLANTIS MS-DB-195 CPN3964
- VOLKSWAGEN TL 52231
- VOLKSWAGEN TL 52231-B

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.13	g/cm³	1.13	g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR)					
260°C/3.8 kg	5.0	g/10 min	5.0	g/10 min	ASTM D1238
260°C/5.0 kg	7.8	g/10 min	7.8	g/10 min	ISO 1133
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	363000	psi	2500	MPa	ISO 527-1/1
Tensile Stress (Yield)	7400	psi	51.0	MPa	ISO 527-2/50
Tensile Strain					ISO 527-2/50
Yield	4.5	%	4.5	%	
Break	120	%	120	%	
Flexural Modulus [1]	334000	psi	2300	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength					ISO 179/1eA
-40°F (-40°C)	19	ft·lb/in²	40	kJ/m²	
73°F (23°C)	24	ft·lb/in²	50	kJ/m²	
Instrumented Dart Impact [2]					ASTM D3763
-20°F (-29°C), 0.126 in (3.20 mm), Peak Energy	550	in·lb	62.1	J	
73°F (23°C), 0.126 in (3.20 mm), Peak Energy	500	in·lb	56.5	J	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ISO 75-2/A
264 psi (1.8 MPa), Unannealed	223	°F	106	°C	
Vicat Softening Temperature	262	°F	128	°C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	4.0E-5 to 4.2E-5	in/in/°F	7.2E-5 to 7.5E-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