

PULSE™ 2000 EZ

PC/ABS Engineering Resin

Trinseo

Message:

PULSE 2000 EZ Engineering Resin is designed to provide top performance in tough applications, from single piece items to intricate components. Ideal for energy management solutions, PULSE 2000 EZ can withstand high and low temperature extremes and rapid, repeated temperature fluctuations.

Applications:

Instrument panels

Knee bolsters

Retainers

Interior trim

General Information			
Features	Good Thermal Stability		
Uses	Automotive Applications		
	Automotive Instrument Panel		
	Automotive Interior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density			
--	1.13	g/cm ³	ASTM D792, ISO 1183/B
--	1130	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR)			
230°C/3.8 kg	3.7	g/10 min	ASTM D1238
260°C/5.0 kg	18	g/10 min	ISO 1133, ASTM D1238
Melt volume-flow rate (230°C/3.8 kg)	7.00	cm ³ /10min	ISO 1133 ²
Molding Shrinkage	0.50 to 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
4.00 mm, Injection Molded	2330	MPa	ISO 527-2
--	2350	MPa	ISO 527-2 ³
Tensile Stress			
Yield ⁴	58.0	MPa	ASTM D638
Yield	57.0	MPa	ISO 527-2/50
Yield	54.0	MPa	ISO 527-2 ⁵
Break ⁶	55.0	MPa	ASTM D638
Break	47.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	4.5	%	ISO 527-2/50

Yield	4.4	%	ISO 527-2 ⁷
Break	160	%	ASTM D638
Break	90	%	ISO 527-2/50
Nominal strain at break	> 50	%	ISO 527-2 ⁸
Flexural Modulus			
-- ⁹	2450	MPa	ASTM D790
-- ¹⁰	2400	MPa	ISO 178
Flexural Stress ¹¹	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ¹²
-30°C	14.0	kJ/m ²	
23°C	40.0	kJ/m ²	
Charpy impact strength			ISO 179/1eU ¹³
-30°C	No Break		
23°C	No Break		
Notched Izod Impact			
-30°C	590	J/m	ASTM D256
23°C	750	J/m	ASTM D256
-30°C	47	kJ/m ²	ISO 180/A
23°C	63	kJ/m ²	ISO 180/A
Instrumented Dart Impact ¹⁴			ASTM D3763
23°C, Total Energy	62.0	J	
23°C, Peak Energy	55.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
0.45 MPa	126	°C	ISO 75-2 ¹⁵
1.8 MPa, Unannealed	109	°C	ASTM D648
1.8 MPa, Unannealed	106	°C	ISO 75-2/A
1.8 MPa	105	°C	ISO 75-2 ¹⁶
Vicat Softening Temperature			
--	142	°C	ISO 306/A120
--	129	°C	ISO 306/B50
50°C/h, B (50N)	124	°C	ISO 306 ¹⁷
CLTE - Flow	6.9E-5	cm/cm/°C	ISO 11359-2 ¹⁸
Flammability	Nominal Value	Unit	Test Method
Burning Rate ¹⁹	< 100	mm/min	FMVSS 302
NOTE			
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		

2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
4.	50 mm/min
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
6.	50 mm/min
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
9.	1.3 mm/min
10.	2.0 mm/min
11.	2.0 mm/min
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
14.	2.20 m/sec
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
18.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
19.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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