PULSE™ 920 MG

PC/ABS Engineering Resin

Trinseo

Message:

An inherently matt medium heat, medium impact PC/ABS resin, PULSE™ 920 MG is designed for interior automotive applications where a matt aesthetic is required. Proprietary low gloss technology allows this unique combination of maximum low gloss aesthetics and physical properties.

General Information			
Features	Low Gloss Medium Heat Resistance Medium Impact Resistance Pleasing Surface Appearance		
Uses	Automotive Applications Automotive Interior Parts		
Appearance	Matte Finish		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1130	kg/m³	ISO 1183 [1]
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/3.8 kg	4.0	g/10 min	
260°C/5.0 kg	22	g/10 min	
Melt volume-flow rate (260°C/5.0 kg)	15.0	cm³/10min	ISO 1133 [2]
Water Absorption			ISO 62 [3]
Saturation	0.030	%	
Equilibrium	0.28	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2050	MPa	ISO 527-2/1, ISO 527-2 2 [4]
Tensile Stress			
Yield	48.0	MPa	ISO 527-2/50, ISO 527-2 [5]
Break	45.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	4.6	%	ISO 527-2 [6]
Break	60	%	ISO 527-2/50
Nominal strain at break	> 50	%	ISO 527-2 [7]
Flexural Modulus [8]	2100	MPa	ISO 178
Flexural Stress [9]	78.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			
-40°C	5.0	kJ/m²	ISO 179
0°C	10	kJ/m²	ISO 179
23°C	22	kJ/m²	ISO 179
-30°C	30.0	kJ/m²	ISO 179/1eA [10]
23°C	45.0	kJ/m²	ISO 179/1eA [11]
Charpy impact strength			ISO 179/1eU [12]
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180
-30°C	20	kJ/m²	
23°C	45	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	127	°C	ISO 75-2/B
0.45 MPa	126	°C	ISO 75-2 [13]
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
1.8 MPa	102	°C	ISO 75-2 [14]
Vicat Softening Temperature			
--	142	°C	ISO 306/A120
--	122	°C	ISO 306/B50
50°C/h, B (50N)	128	°C	ISO 306 [15]
CLTE - Flow (0 to 80°C)	5.0E-5	cm/cm/°C	ASTM D696

Flammability	Nominal Value		Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm, UL)	HB		ISO 1210 [16]

Injection	Nominal Value	Unit
Processing (Melt) Temp	250 to 290	°C
Mold Temperature	50.0 to 90.0	°C

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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
8.	2.0 mm/min
9.	2.0 mm/min
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.

Recommended distributors for this material

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