PULSE™ 2013

PC/ABS Engineering Resin

Trinseo

Message:

PULSE 2013 is a talc-filled PC/ABS which provides an optimized balance of properties with low CLTE. This grade is precolored black.
Applications:
Automotive exterior painted trim applications that require enhanced dimensional stability.
Suitable for injection molding.

General Information			
Filler / Reinforcement	Talc filler		
Features	Good dimensional stability		
Uses	Application in Automobile Field Car exterior decoration		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.24	g/cm³	ISO 1183/A
Apparent Density	0.74	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.9	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.42	%	ISO 294-4
Flow direction	0.35	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4310	MPa	ISO 527-2/50
Tensile Stress			ISO 527-2/50
Yield	60.8	MPa	ISO 527-2/50
Fracture	48.9	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.0	%	ISO 527-2/50
Fracture	4.7	%	ISO 527-2/50
Flexural Modulus [1]	3950	MPa	ISO 178
Flexural Stress [2]	95.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m²	ISO 179/1eA
23°C	6.5	kJ/m²	ISO 179/1eA
Notched Izod Impact			ISO 180/A
-30°C	5.8	kJ/m²	ISO 180/A

23°C	6.2	kJ/m²	ISO 180/A
Instrumented Dart Impact [3]			
-30°C, Peak Energy	37.2	J	
23°C, Peak Energy	32.8	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	124	°C	ISO 75-2/B
1.8 MPa, not annealed	108	°C	ISO 75-2/A
Vicat Softening Temperature	122	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2
Flow: -30 to 80°C	4.5E-5	cm/cm/°C	ISO 11359-2
Horizontal: -30 to 80°C	5.8E-5	cm/cm/°C	ISO 11359-2
Additional Information			
Tests conducted on 4 mm injection molded specimen, unannealed, unless noted.			
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	6.60 m/sec		

Recommended distributors for this material

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