

PULSE™ A35-105

PC/ABS Engineering Resin

Trinseo

Message:

PULSE A35-105 engineering resins give exceptional impact strength even at low temperatures and have a high heat distortion temperature.

Applications:

PULSE A35-105 is used in a wide range of applications where a balance of low temperature toughness, high heat distortion, and easy processing are required. Some examples are automotive instrument panels, automotive interior/exterior trim, small appliance and electrical applications.

General Information			
Features	Good Processability		
	Good Toughness		
	High Impact Resistance		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Automotive Instrument Panel		
	Automotive Interior Parts		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	3.0	g/10 min	
250°C/5.0 kg	12	g/10 min	
260°C/5.0 kg	17	g/10 min	
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20 to 0.60	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	105	MPa	DIN 53459
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress			ISO 527-2/5
Yield	52.0	MPa	
Break	50.0	MPa	
Tensile Strain (Break)	> 80	%	ISO 527-2/5

Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	82.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	45	kJ/m ²	
23°C	50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	126	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Vicat Softening Temperature			
--	142	°C	ISO 306/A120
--	122	°C	ISO 306/B50
CLTE - Flow (0 to 80°C)	7.5E-5 to 8.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.20	W/m/K	ASTM C177
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹ (1.60 mm)	HB		Internal Method
Oxygen Index ²	20	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	260 to 290	°C	
Mold Temperature	70.0 to 90.0	°C	
NOTE			

1.

This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

2.

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