

MAGNUM™ 3416NA

ABS Resin

Trinseo

Message:

High Heat, Low Gloss ABS resin with good practical toughness for injection molded automotive interior applications.

Applications:

Door panels, Floor consoles, Instrument Panel & Sidewall trim parts.

General Information			
Features	Good Toughness		
	High Heat Resistance		
	Low Gloss		
Uses	Automotive Applications		
	Automotive Instrument Panel		
	Automotive Interior Parts		
	Automotive Interior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Apparent Density	0.66	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	8.0	g/10 min	
230°C/3.8 kg	2.6	g/10 min	
Molding Shrinkage			ISO 294-4
Across Flow	0.55	%	
Flow	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2180	MPa	ISO 527-2/1
Tensile Stress (Yield)	43.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus	2260	MPa	ISO 178
Flexural Stress	66.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	11	kJ/m ²	
23°C	18	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	12	kJ/m ²	

23°C	20	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	°C	ISO 75-2/A
Vicat Softening Temperature	107	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate ¹ (2.00 mm)	25	mm/min	ISO 3795
Carbon Emission ²	10.0	µg/g	VDA 277
Fogging ³ (100°C)	94	%	ISO 6452
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	243	°C	
Middle Temperature	254	°C	
Front Temperature	260	°C	
Nozzle Temperature	254	°C	
Processing (Melt) Temp	254 to 271	°C	
Mold Temperature	38.0 to 60.0	°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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3.

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