

MAGNUM™ 3416 SC

ABS Resin

Trinseo

Message:

MAGNUM 3416SC is a resin with very high heat resistance and excellent processing characteristics.
The mass (continuous process) ABS technology ensures an ABS resin that combines excellent processability with stable light base color that is ideal for self-coloring.
Applications:
Automotive interior and exterior applications
Pillar covers
Dashboard components
Taillight housings
Consoles
Household appliances

General Information			
UL YellowCard	E162447-238262	E73656-249570	
Features	Good Processability		
	High Heat Resistance		
Uses	Appliances		
	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Interior Parts		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Apparent Density	0.65	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.5	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	43.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.1	%	ISO 527-2
Flexural Modulus ¹	2200	MPa	ISO 178
Flexural Stress ²	76.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	12	kJ/m ²	

23°C	17	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	85.0	°C	
1.8 MPa, Annealed	100	°C	
Vicat Softening Temperature	108	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate ³ (2.00 mm)	55	mm/min	ISO 3795
Flame Rating ⁴			UL 94
1.50 mm	HB		
3.00 mm	HB		
Carbon Emission	10.0	µg/g	VDA 277
Fogging	99	%	ISO 6452
NOTE			
1.	3-points		
2.	3-points		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

