

MAGNUM™ 3416 SLG

ABS Resin

Overview

Overview:

MAGNUM™ 3416SLG is a high-heat ABS. Its very low gloss properties combined with a high flow makes it specifically suitable for unpainted interior automotive applications. MAGNUM™ 3416SLG can thereby help you to save up to 50% of the part costs. It is globally available, locally produced in major car production regions.

Benefits:

- Lot to lot consistency allowing for optimal machine parameters settings from the start
- Self-coloring enabling improvement of costs by using less pigments and lowering your logistic costs
- Low VOC allowing a better interior air quality facing increasing regulatory and OEMs constraints.
- Heat stability during wide range of processing temperatures: enhanced part design freedom
- High scratch and mar resistance for an improved aesthetic durability of the parts
- Easier recyclability of unpainted part

Applications:

- Unpainted interior automotive applications
- Mid-consoles
- Door panels
- Door handles
- Door armrests
- Pillars

Automotive Specifications

- GM GMW15572P-ABS-T1 Color: Jet Black
- GM GMW15572P-ABS-T2 Color: Jet Black
- VAG VW-TL 527 A
- VAG VW-TL 527 B

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183
Apparent (Bulk) Density	0.65 g/cm ³	0.65 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.5 g/10 min	8.5 g/10 min	ISO 1133
Molding Shrinkage - Across Flow	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (Injection Molded)	276000 psi	1900 MPa	ISO 527-2
Tensile Stress (Yield)	5660 psi	39.0 MPa	ISO 527-2/50
Tensile Strain (Break)	60 %	60 %	ISO 527-2/50
Flexural Modulus ^{1, 2}	297000 psi	2050 MPa	ISO 178
Flexural Stress ^{1, 2}	8990 psi	62.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.8 ft-lb/in ²	8.0 kJ/m ²	
73°F (23°C)	5.7 ft-lb/in ²	12 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	183 °F	84.0 °C	
Vicat Softening Temperature	225 °F	107 °C	ISO 306/B50

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

² 3-points

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