

# 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.

### 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
- VAG VW-TL 527 A
- VOLKSWAGEN TL 527 Type A
- GM GMW15572P-ABS-T2 Color: Jet Black
- VAG VW-TL 527 B
- VOLKSWAGEN TL 527 Type B

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm <sup>3</sup>	1.05 g/cm <sup>3</sup>	ISO 1183
Apparent (Bulk) Density	0.65 g/cm <sup>3</sup>	0.65 g/cm <sup>3</sup>	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	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	261000 psi	1800 MPa	ISO 527-1/1
Tensile Stress (Yield)	5510 psi	38.0 MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.0 %	3.0 %	
Break	60 %	60 %	
Flexural Modulus <sup>1</sup>	283000 psi	1950 MPa	ISO 178
Flexural Stress <sup>1</sup>	8990 psi	62.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength 73°F (23°C), Injection Molded	5.7 ft·lb/in <sup>2</sup>	12 kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	180 °F	82.0 °C	ISO 75-2/A
Vicat Softening Temperature	225 °F	107 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Carbon Emission <sup>2</sup>	20.0 µg/g	20.0 µg/g	VDA 277

<b>Injection</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr

**Notes**

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

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<sup>1</sup> 0.079 in/min (2.0 mm/min)

<sup>2</sup> This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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