MAGNUM™ 3416 SLG

Trinseo - ABS Resin

Thursday, March 10, 2022

General Information

Product Description

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"

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Creep Resistant • Good Processability	• Good Stiffness • Good Strength	• High Heat Resistance • Low Gloss
Uses	• Automotive Applications	• Automotive Interior Parts	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Apparent (Bulk) Density	0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.5	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1800	MPa	ISO 527-1/1
Tensile Stress (Yield)	38.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Tensile Strain (Break)	60	%	ISO 527-2/50
Flexural Modulus [2]	1950	MPa	ISO 178
Flexural Stress [2]	62.0	MPa	ISO 178

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Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
23°C, Injection Molded	12	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	82.0	°C	
Vicat Softening Temperature	107	°C	ISO 306/B50
Flammability	**Nominal Value**	**Unit**	**Test Method**
Carbon Emission	20.0	µg/g	VDA 277

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0 to 4.0	hr

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 mm/min