

MAGNUM™ 3325 SLG

Trinseo - ABS Resin

Sunday, November 3, 2019

General Information

Product Description

Overview:

MAGNUM™ 3325SLG is a medium heat ABS. Its very low gloss combined with a high flow makes it specifically suitable for unpainted interior automotive applications. MAGNUM™ 3325SLG can thereby help you to save up to 50% of the part costs.

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:

- · Matt/unpainted interior automotive applications
- · Mid-consoles
- Pillars
- · Door liners
- · Glove boxes

General			
Material Status	Commercial: Active		
Availability	Latin America	North America	
Features	Low Gloss	Medium Heat Resistance	Medium Impact Resistance
Uses	 Automotive Applications 	 Automotive Interior Parts 	
Automotive Specifications	CHRYSLER MS-DB-191 TypeFORD WSK-M4D827-A	A • FORD WSS-M4D827-C1 • GM GMP.ABS.003	• GM GMW15572P-ABS-T2
Forms	 Pellets 		
Processing Method	Injection Molding		

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	1.05		ASTM D792	
Density	1.05	g/cm³	ISO 1183/B	
Apparent (Bulk) Density	0.69	g/cm³	ASTM D1895	
Melt Mass-Flow Rate (230°C/3.8 kg)	3.1	g/10 min	ASTM D1238	
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.1	g/10 min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	0.53	%		
Flow	0.52	%		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus ²	301000	psi	ASTM D638	
Tensile Modulus	278000	psi	ISO 527-2	
Tensile Strength ² (Yield)	5800	psi	ASTM D638	
Tensile Stress (Yield)	5370	psi	ISO 527-2/50	



MAGNUM™ 3325 SLG

Trinseo - ABS Resin

Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation ² (Yield)	2.8	%	ASTM D638
Tensile Strain (Yield)	2.8	%	ISO 527-2/50
Tensile Elongation ² (Break)	22	%	ASTM D638
Tensile Strain (Break)	19	%	ISO 527-2/50
Flexural Modulus ³	311000	psi	ASTM D790
Flexural Modulus ^{4, 5}	300000	psi	ISO 178
Flexural Strength ³	9300	psi	ASTM D790
Flexural Stress ^{4, 5}	8850	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.2	ft·lb/in²	
73°F	7.6	ft·lb/in²	
Notched Izod Impact			ASTM D256
-22°F	2.4	ft·lb/in	
73°F	3.5	ft·lb/in	
Notched Izod Impact Strength			ISO 180/A
-22°F	5.2	ft·lb/in²	
73°F	8.6	ft·lb/in²	
Instrumented Dart Impact			ASTM D3763
-22°F, Peak Energy	204	in·lb	
73°F, Peak Energy	266	in·lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	206	°F	ASTM D648
Heat Deflection Temperature (66 psi, Unannealed)	207	°F	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	180	°F	
Heat Deflection Temperature (264 psi, Unannealed)	180	°F	ISO 75-2/A
Vicat Softening Temperature	214	°F	ASTM D1525 ⁶
Vicat Softening Temperature	214	°F	ISO 306/B50
CLTE - Flow (-40 to 212°F)	4.6E-5	in/in/°F	ASTM E831
CLTE - Transverse (-40 to 212°F)	5.0E-5	in/in/°F	ASTM E831
Flammability	Nominal Value	Unit	Test Method
	Nominal Value		
FMVSS Flammability ⁷		in/min	FMVSS 302
		in/min	FMVSS 302
Processing	0.96		FMVSS 302
Processing	0.96 g Information Nominal Value 180 to 185	Unit °F	FMVSS 302
Processing injection Drying Temperature Drying Time	0.96 g Information Nominal Value	Unit °F	FMVSS 302
Processing Injection Drying Temperature	0.96 g Information Nominal Value 180 to 185	Unit °F hr	FMVSS 302
Processing injection Drying Temperature Drying Time	0.96 g Information Nominal Value 180 to 185 > 2.0	Unit °F hr °F	FMVSS 302
Processing Injection Drying Temperature Drying Time Rear Temperature	0.96 g Information Nominal Value 180 to 185 > 2.0 460	Unit °F hr °F °F	FMVSS 302
Processing Injection Drying Temperature Drying Time Rear Temperature Middle Temperature	0.96 9 Information Nominal Value 180 to 185 > 2.0 460 480	Unit °F hr °F °F °F	FMVSS 302
Processing njection Drying Temperature Drying Time Rear Temperature Middle Temperature Front Temperature	0.96 Information Nominal Value 180 to 185 > 2.0 460 480 489	Unit °F hr °F °F °F °F	FMVSS 302



MAGNUM™ 3325 SLG

Trinseo - ABS Resin

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 2.0 in/min
- ³ Method I (3 point load), 0.051 in/min
- ⁴ 0.079 in/min
- ⁵ 3-points
- ⁶ Rate A (50°C/h), Loading 2 (50 N)
- ⁷ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

