GLS 323-116 White

Thermoplastic Elastomer

Key Characteristics

Product Description			
GLS 323-116 White is a customized thermoplastic elastomer formulation.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Specialty Grade		
Uses	• Cap Liners	• Closures	• Gaskets
Agency Ratings	• FDA		
RoHS Compliance	• RoHS Compliant		
Appearance	• White		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.890	0.890	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2, 3] (300% Strain, 73°F (23°C))	479 psi	3.30 MPa	ASTM D412
Tensile Strength [2, 3] (Yield, 73°F (23°C))	1000 psi	6.90 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	650 %	650 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	70	70	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 1340 sec^-1	66.7 Pa·s	66.7 Pa·s	
392°F (200°C), 11200 sec^-1	14.0 Pa·s	14.0 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	290 to 340 °F	143 to 171 °C
Middle Temperature	320 to 380 °F	160 to 193 °C
Front Temperature	340 to 400 °F	171 to 204 °C
Nozzle Temperature	340 to 400 °F	171 to 204 °C
Processing (Melt) Temp	360 to 400 °F	182 to 204 °C

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Injection Notes

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP).

Regrind levels up to 20% can be used with GLS 323-116 White with minimal property loss, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer.

GLS 323-116 White has excellent melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 8 - 10 minutes or longer.

Drying is not Required

Notes

[1] Typical values are not to be construed as specifications.

[2] Die C

[3] 2 hr

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