GLS AF0-880

Thermoplastic Elastomer

Key Characteristics

Product Description		
GLS AF0-880 is a custom thermoplastic elastomer formulation. This grade is food contact compliant under Chinese GB 4806.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Features	• Specialty Grade	
Uses	• Closures	• Seals
Agency Ratings	• Chinese Standard GB 4806.7-2016	• Chinese Standard GB 9685-2016
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 (300% Strain, 73°F (23°C))	450 psi	3.10 MPa	ASTM D412
Tensile Strength (Break, 73°F (23°C))	940 psi	6.48 MPa	ASTM D412
Tensile Elongation (Break, 73°F (23°C))	720 %	720 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	60	60	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 1340 sec^-1	51.0 Pa·s	51.0 Pa·s	
392°F (200°C), 11200 sec^-1	10.5 Pa·s	10.5 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 AF0-880 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 AF0-880 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.

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