GLS 137-093 (HL-5B)

Thermoplastic Elastomer

Key Characteristics

Product Description			
GLS 137-093 (HL-5B) is a custom thermoplastic elastomer.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Specialty Grade		
Uses	• Closures		
Agency Ratings	• FDA 21 CFR 177.1210 [1]		
RoHS Compliance	• RoHS Compliant		
Appearance	• Blue		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties [2]

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 [3, 4] (50% Strain, 73°F (23°C))	175 psi	1.21 MPa	ASTM D412
Tensile Stress [3, 4] (300% Strain, 73°F (23°C))	335 psi	2.31 MPa	ASTM D412
Tensile Strength [3, 4] (Yield, 73°F (23°C))	665 psi	4.59 MPa	ASTM D412
Tensile Elongation [3, 4] (Break, 73°F (23°C))	660 %	660 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	53	53	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 67.0 sec^-1	300 Pa·s	300 Pa·s	

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Melt Temperature	360 to 400 °F	182 to 204 °C
Die Temperature	340 to 400 °F	171 to 204 °C

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Extrusion Notes

Rear Temp: 290-340F
Middle Temp: 320-380F
Front Temp: 340-400F
Drying is not Required

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 137-093 (HL-5B) with minimal property loss, provided that the regrind is free of contamination. To minimize losses during extrusion, the melt temperature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer.

GLS 137-093 (HL-5B) 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.

Notes

[1] Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.

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

[3] Die C

[4] 2 hr

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