GLS 450-078 TRANSLUCENT

Thermoplastic Elastomer

Key Characteristics

Product Description		
GLS 450-078 TRANSLUCENT is a customized supersoft thermoplastic elastomer and targeted for healthcare application.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Features	• Specialty Grade	
Uses	• Consumer Applications	• Personal Care
Agency Ratings	• FDA	
RoHS Compliance	• RoHS Compliant	
Appearance	• Translucent	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.860	0.860	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (Break, 73°F (23°C))	145 psi	1.00 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	1000 %	1000 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore OO, 10 sec)	32	32	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	2.88 Pa·s	2.88 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	266 to 338 °F	130 to 170 °C
Middle Temperature	284 to 356 °F	140 to 180 °C
Front Temperature	302 to 374 °F	150 to 190 °C
Nozzle Temperature	320 to 392 °F	160 to 200 °C
Processing (Melt) Temp	320 to 392 °F	160 to 200 °C

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 450-078 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 450-078 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 5-8 minutes or longer.

Drying is not Required

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Notes

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

[2] Die C

[3] 2 hr

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