GLS AC5-392

Thermoplastic Elastomer

Key Characteristics

Product Description		
GLS AC5-392 is a customized thermoplastic elastomer developed especially for healthcare application		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Features	• Specialty Grade	
Uses	• Medical/Healthcare Applications	• Tubing
RoHS Compliance	• RoHS Compliant	
Appearance	• Clear/Transparent	
Forms	• Pellets	
Processing Method	• Extrusion	

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))	769 psi	5.30 MPa	ASTM D412
Tensile Strength [2, 3] (Break, 73°F (23°C))	1100 psi	7.60 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	480 %	480 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	72	72	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 1340 sec^-1	185 Pa·s	185 Pa·s	
392°F (200°C), 11200 sec^-1	40.0 Pa·s	40.0 Pa·s	

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	356 to 401 °F	180 to 205 °C
Die Temperature	338 to 392 °F	170 to 200 °C

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Extrusion Notes

Color concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring GLS AC5-392. Improved color dispersion can be achieved by using higher melt flow concentrates (with a melt flow from 25 - 40g/10 min). Typical loadings for color concentrates are 1% to 5% by weight. Liquid color can be used, but mineral oil based carriers may have a significant effect on the final hardness value. Concentrates based on PVC should not be used. A high color match consistency can be obtained by using precolored compounds available from GLS. The final determination of color concentrate suitability should be determined by customer trials.

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

Drying is not Required

Rear: 330F-370F
Center: 350F-400F
Front: 360F-420F
Screw: 100-500RPM

Notes

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

[2] Die C

[3] 2 hr

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