GLS AD1-195B

Thermoplastic Elastomer

Key Characteristics

Product Description

GLS AD1-195B is a customized developed TPE for food contact application with features:

- Flexible
- High Clarity
- Formulated without plasticizers

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• Good Flexibility	• High Clarity	
Uses	• Food Service Applications	• Tubing	
Agency Ratings	• Chinese Standard GB 9685-2016	• EU 10/2011	• FDA
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	0.880	0.880	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2, 3] (100% Strain, 73°F (23°C))	305 psi	2.10 MPa	ASTM D412
Tensile Stress [2, 3] (300% Strain, 73°F (23°C))	479 psi	3.30 MPa	ASTM D412
Tensile Strength [2, 3] (Break, 73°F (23°C))	769 psi	5.30 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	500 %	500 %	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	165 Pa·s	165 Pa·s	
392°F (200°C), 11200 sec^-1	38.3 Pa·s	38.3 Pa·s	

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	356 to 410 °F	180 to 210 °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 AD1-195B. 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

CONTACT INFORMATION

North America
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

South America
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

Asia
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

Europe
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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