LC AF5-960B

Thermoplastic Elastomer

Key Characteristics

Product Description		
LC AF5-960B is a non-halogen flame retardant material with good mechanical properties.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Features	• Flame Retardant	• Halogen Free
Uses	• Computer Data Storage	
Agency Ratings	• UL 94	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (100% Strain, 73°F (23°C))	2390 psi	16.5 MPa	ASTM D412
Tensile Strength [2, 3] (Break, 73°F (23°C))	2440 psi	16.8 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	150 %	150 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	97	97	ASTM D2240
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 in (1.5 mm), Black, Natural	V-0	V-0	
0.12 in (3.0 mm), Black, Natural	V-0	V-0	
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	30.8 Pa·s	30.8 Pa·s	

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Cylinder Zone 1 Temp.	356 to 374 °F	180 to 190 °C
Cylinder Zone 2 Temp.	356 to 428 °F	180 to 220 °C
Cylinder Zone 3 Temp.	374 to 446 °F	190 to 230 °C
Cylinder Zone 4 Temp.	374 to 446 °F	190 to 230 °C
Die Temperature	356 to 446 °F	180 to 230 °C

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Extrusion Notes

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

Use with non-treated steel equipment and/or at higher than recommended process temperatures may cause corrosion of equipment. Customer is responsible for testing material for suitability in its application and on its equipment. Avient is not responsible for any damage to customer equipment

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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