

High-Performing Acoustic Material - QL Series

Product Description

Aearo's QL material is a proprietary low surface weight, high-performing noise control barrier for aircraft applications. This thermoset barrier is specifically engineered for high dimensional stability, flexibility, damping and to comply with FAR 25.856(a) flammability.



TYPICAL PROPERTIES	QL-20	QL-40
Material Type	Chloroprene rubber	
Color	Black	
Flammability FAR 25.853(a) Appendix F Part I (a) (1) (ii) 12 sec.	Passes	
FAR 25.856(a) Appendix F Part VI	Passes	
Nominal Thickness, in (mm)	0.026 (0.66)	0.050 (1.27)
Nominal Surface Weight, Ib/ft² (kg/m²)	0.2 (1.0)	0.4 (2.0)
Peak Damping Performance at 20°C, 4kHz	0.86	
Tensile Strength, PSI (MPa) ASTM D412	946 (6.5)	1015 (7)
Tear Strength, PPI (kN/m) ASTM D624	114 (20)	121 (21)
Dimensional Stability (% Change) High Temperature, 100 Hrs at 90°C	- 0.5	
Temperature and Humidity Variations, 100 Cycles between -40°C and 70°C (Up to 95% relative humidity)	± 0.1	
RoHS Compliance RoHS 2 DIRECTIVE 2011/65/EU - Annex II, Article 4(I)	MEETS with No Exemptions	
EU REACH Regulation Article 57 SVHC effective June 2020	Passes	





YOUNG'S MODULUS AND LOSS FACTOR AT 20°C

Technical Information

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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