

3A Composites Core Materials AIREX® R63.50 Damage Tolerant Foam

Category : Other Engineering Material , Composite Core Material , Polymer , Thermoplastic

Material Notes:

AIREX® R63 is a closed-cell, linear, thermoplastic polymer foam with high damage tolerance. This one of a kind formula combines very high elongation and excellent bond strength. AIREX® R63 is cold formable to simple shapes and thermo-formable to complex three-dimensional curves, and is nonfriable. AIREX® R63 is a core material for dynamically loaded and shock absorbing sandwich structures. Characteristics Good impact strength (non-brittle failure mode) Easy to thermoform (cold and hot) Dimensionally stable Excellent fatigue resistance Outstanding core-to-skin adhesion Non biodegradable Good sound and thermal insulation Applications Marine: Hull bottoms, hull sides Road and Rail: Front-ends, side skirts, crash belts Aircraft: Explosion proof cargo containers Recreation: Surf boards, canoes, kayaks Industrial: Containers, shelters, helmets

Order this product through the following link:

http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-AIREX-R6350-Damage-Tolerant-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0600 g/cc	0.00217 lb/in ³	average; ISO 845

Mechanical Properties	Metric	English	Comments
Tensile Strength	0.900 MPa	131 psi	average; in the plane; ISO 527 1-2
Elongation at Break	70 %	70 %	average; shear; ISO 1922
Tensile Modulus	0.0300 GPa	4.35 ksi	average; in the plane; ISO 527 1-2
Compressive Strength	0.380 MPa	55.1 psi	average; perpendicular to plane; ISO 844
Compressive Modulus	0.0300 GPa	4.35 ksi	average; perpendicular to plane; DIN 53421
Shear Modulus	0.0110 GPa	1.60 ksi	average; ASTM C393
Shear Strength	0.500 MPa	72.5 psi	average; ISO 1922
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0340 W/m-K	0.236 BTU-in/hr-ft ² -°F	ISO 8301

Descriptive Properties	Value	Comments
Color	brownish yellow	

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