

Pyrotek LUMIFELT AL20L High Temperature Kevlar® Felt

Category : Polymer , Thermoset , Aramid

Material Notes:

Lumifelt is composed of heat resistant para linked type Kevlar® fiber. Lumifelt is an ideal insulating pad for a variety of applications. It is needle punched to give it high tensile strength and good holding strength to maintain product integrity. Applications: Insulating pads for high-temperature glass transfer applications Sealing materials for annealing furnace of nonferrous metal Heat shields for furnace doors Cushioning material for hot glass transfer and conveyance Insulating pads for conveyor line and shock absorber Covering material for conveyor rolls Advantages: Asbestos-free Excellent heat and abrasion resistance High elasticity Long life to cyclic loading Good recovery from compression Light weight Good coefficient of friction Will not damage nor blur the surface of glass containers or other high-temperature glass products Porosity reduces the temperature difference between pad contacting and non-contacting surfaces Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-LUMIFELT-AL20L-High-Temperature-Kevlar-Felt.php

Physical Properties	Metric	English	Comments
Density	0.450 g/cc	0.0163 lb/in ³	
Permeability	1.0 @Thickness 10.0 mm	1.0 @Thickness 0.394 in	cc/sec/cm ² , Air

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.9807 MPa	142.2 psi	to 4% compression
Coefficient of Friction, Static	0.30	0.30	
Abrasion	0.90	0.90	Thickness reduction after 10,000 abrasion cycles under 500 g/cm ² load at 400°C
	0.95	0.95	Thickness reduction after 10,000 abrasion cycles under 500 g/cm ² load at 320°C

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	

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