

Tritex TRI-F Blanket Insulation

Category : Other Engineering Material , Composite Fibers

Material Notes:

TRI-F is a unique thermal and acoustic insulation that combines three high temperature fibers in a patented process. The result is a blanket with a service life to 1500°F. By blending fibers of varying diameters it gives TRI-F excellent acoustic properties, added rigidity and strength. This patented process also removes shot thereby making it ideal for applications that see excessive vibration. TRI-F is Biosafe, environmentally friendly and manufactured from 100% recycled raw materials. TRI-F is also classified by IARC as Group 3 and is not classifiable as carcinogenic to humans. Information provided by TRITEX

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tritex-TRI-F-Blanket-Insulation.php

Physical Properties	Metric	English	Comments
Density	2.75 - 2.90 g/cc	0.0994 - 0.105 lb/in ³	
Loss On Ignition	<= 0.50 %	<= 0.50 %	
Filament Diameter	6.0 µm	6.0 µm	Average
Absorption Coefficient	0.040	0.040	Sound
	@Frequency 125 Hz	@Frequency 125 Hz	
	0.12	0.12	Sound
	@Frequency 250 Hz	@Frequency 250 Hz	
	0.31	0.31	Sound
	@Frequency 500 Hz	@Frequency 500 Hz	
0.64	0.64	Sound	
@Frequency 1000 Hz	@Frequency 1000 Hz		
0.78	0.78	Sound	
@Frequency 2000 Hz	@Frequency 2000 Hz		
0.87	0.87	Sound	
@Frequency 4000 Hz	@Frequency 4000 Hz		

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	552 MPa	80000 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0807 W/m-K	0.560 BTU-in/hr-ft ² -°F	

Thermal Properties	@Temperature 371 °C Metric	@Temperature 700 °F English	Comments
	0.0994 W/m-K	0.690 BTU-in/hr-ft ² -°F	
	@Temperature 482 °C	@Temperature 900 °F	
	0.160 W/m-K	1.11 BTU-in/hr-ft ² -°F	
	@Temperature 649 °C	@Temperature 1200 °F	
	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	
	@Temperature 816 °C	@Temperature 1500 °F	
Melting Point	>= 1100 °C	>= 2010 °F	Fiber
Maximum Service Temperature, Air	815 °C	1500 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	14 %	14 %	Primary Fiber
CaO	15 %	15 %	Primary Fiber
FeO	0.10 %	0.10 %	Primary Fiber
MgO	7.5 %	7.5 %	Primary Fiber
MnO	10 %	10 %	Primary Fiber
Other	3.4 %	3.4 %	Primary Fiber
SiO ₂	42 %	42 %	Primary Fiber

Descriptive Properties	Value	Comments
Average Fiber Length (mm)	4	
Color	white/beige	
Moisture Resistant	Yes	
Surface Treatment	None	

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