

Microtherm Group Molded Pipe Sections Filament Reinforced Silica Pipe Insulation

Category : Ceramic , Oxide , Silicon Oxide , Other Engineering Material

Material Notes:

Microtherm® Moulded Pipe Sections (MPS) are preformed pieces of pipe insulation designed to provide a thermally efficient insulation system for piping of all sizes from 25 mm (1 inch) upwards. Formulation based on pyrogenic silica with a mineral oxide opacifier and E-glass filament reinforcement. Properties Microporous insulation offering the lowest theoretically possible thermal conductivity for continuous operation at temperatures up to 1000 °C (1832 °F) Precision molded pipe insulation sections Can be applied in multi layer systems Non combustible Environmentally friendly Free of harmful respirable fibers. Typical Applications All pipeline applications Round ducting applications Passive fire protection to piping systems. Information provided by Microtherm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Microtherm-Group-Molded-Pipe-Sections-Filament-Reinforced-Silica-Pipe-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.320 - 0.350 g/cc	0.0116 - 0.0126 lb/in ³	
Thickness	25000 microns	984 mil	

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.0420 MPa	6.09 psi	Resistance at 10%, 350 kg/m ² ; ASTM C165
Compressive Modulus	0.00440 GPa	0.638 ksi	@ 350 kg/m ² ; ASTM C165

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.680 J/g-°C	0.163 BTU/lb-°F	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.920 J/g-°C	0.220 BTU/lb-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	1.00 J/g-°C	0.239 BTU/lb-°F	
	@Temperature 400 °C	@Temperature 752 °F	
	1.04 J/g-°C	0.249 BTU/lb-°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	1.08 J/g-°C	0.258 BTU/lb-°F	
	@Temperature 800 °C	@Temperature 1470 °F	

Thermal Properties Thermal Conductivity	Metric 0.0221 W/m-K	English 0.153 BTU-in/hr-ftÂ²- Â°F	Comments @ 320 kg/mÂ³; ASTM C177, ISO 8302
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	0.0222 W/m-K	0.154 BTU-in/hr-ftÂ²- Â°F	@ 320 kg/mÂ³; ASTM C177, ISO 8302
	@Temperature 200 Â°C	@Temperature 392 Â°F	
	0.0230 W/m-K	0.160 BTU-in/hr-ftÂ²- Â°F	@ 320 kg/mÂ³; ASTM C177, ISO 8302
	@Temperature 300 Â°C	@Temperature 572 Â°F	
	0.0244 W/m-K	0.169 BTU-in/hr-ftÂ²- Â°F	@ 320 kg/mÂ³; ASTM C177, ISO 8302
	@Temperature 400 Â°C	@Temperature 752 Â°F	
	0.0260 W/m-K	0.180 BTU-in/hr-ftÂ²- Â°F	@ 320 kg/mÂ³; ASTM C177, ISO 8302
	@Temperature 500 Â°C	@Temperature 932 Â°F	
	0.0281 W/m-K	0.195 BTU-in/hr-ftÂ²- Â°F	@ 320 kg/mÂ³; ASTM C177, ISO 8302
	@Temperature 600 Â°C	@Temperature 1110 Â°F	
	0.0343 W/m-K	0.238 BTU-in/hr-ftÂ²- Â°F	@ 320 kg/mÂ³; ASTM C177, ISO 8302
	@Temperature 800 Â°C	@Temperature 1470 Â°F	
Maximum Service Temperature, Air	1000 Â°C	1830 Â°F	for long term exposure

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