

ICOOL Line Set Insulation Specifications

1. Mini-Split



ITEM	ICOOL INSULATION	TEST METHOD
Cell Structure	Closed Cell	Test Method: N/A
Density	0.028 ~ 0.032 G/CM3 (1.75-2 lbs/ft3)	Test Method: ASTM D1667
Temperature Range	-40°C - 110°C (-104°F to 230°F)	Test Method: N/A
Water Vapor Permeability	Less than 0.1 MG/CM2	Test Method: ASTM C355
Water Absorption Volume	0.042 MG/CM2 or Less	Test Method: ASTM C209
Thermal Conductivity	0.037 Kcal/M2H°C or Less	Test Method: ASTM C518
Flammability	ASTM E84 25/50	Test Method: ASTM E84 25/50
UV Weather Resistance	Excellent	Test Method: ASTM G154
Ozone Resistance	No Cracking	Test Method: ASTM D1171
Smoke Density	Self Extinguishing	Test Method: ASTM D635
Flexibility	Excellent	Test Method: N/A
R value	R 3.9 (ft2-°F-h/BTU-in)	Test Method: N/A
Copper Tube	Commercial Grade Refridgeration Tubing (ASTM B280 & ASTM B743 & ASTM B88)	

2. Linesets



Rubber

ITEM	ICOOL INSULATION	TEST METHOD
Cell Structure	Closed Cell	Test Method: N/A
Density	3/6 lb/ft~3	Test Method: ASTM D1667
Temperature Range	-183°C - 220°C (-297°F to 220°F)	Test Method: ASTM C534
Water Vapor Permeability	Less than 0.01 perm-in	Test Method: ASTM E96
Water Absorption Volume	0	Test Method: ASTM C209
Thermal Conductivity (K) Btu-in/hr-Ft2-°F (W/mK) 90°F (32°C) Mean Temp 75°F (24°C) Mean Temp 32°F (0°C) Mean Temp	0.258 (0.0372) 0.245 (0.0353) 0.235 (0.0339)	Test Method: ASTM C177
Flammability	ASTM E84 25/50	Test Method: ASTM E84 25/50
UV Weather Resistance	Excellent	Test Method: quv Chamber Test
Ozone Resistance	Pass	Test Method: ASTM D1171
Smoke Density	Self Extinguishing	Test Method: ASTM D635
Flexibility	Excellent Pass: Cold Crack Test at -40°F (-40°C)	ASTM C534 ASTM D1056
Copper Tube	Commercial Grade Refridgeration Tubing (ASTM B743 & ASTM B88)	

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