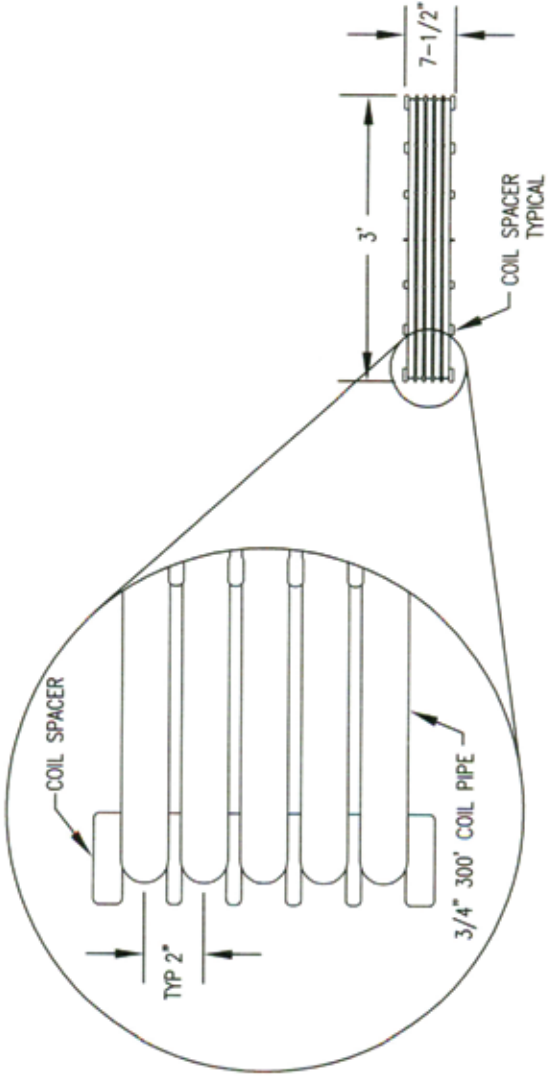


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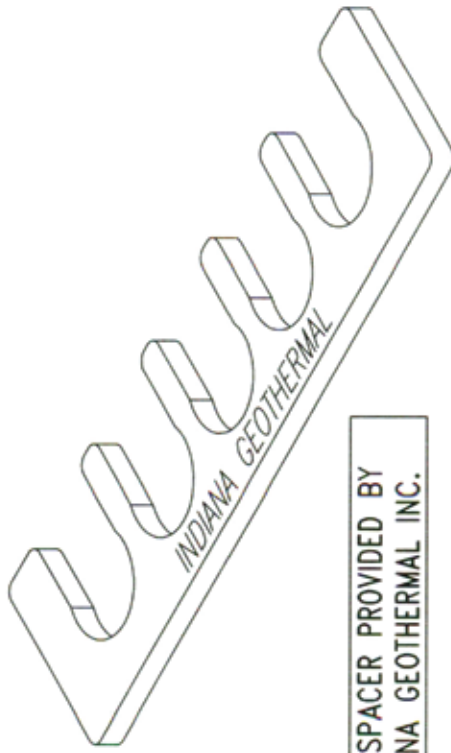
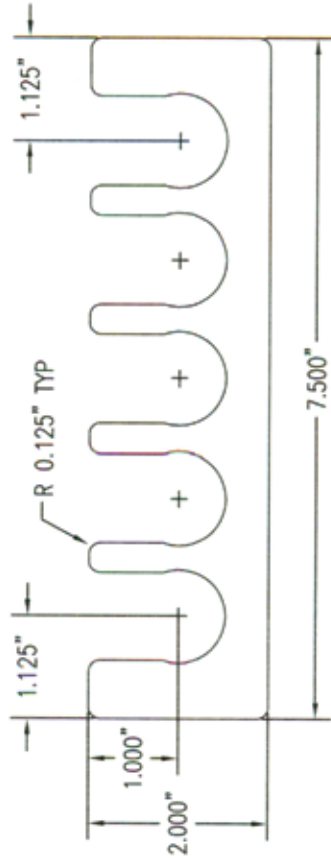


Geothermal Pond Coil Spacer Detail
SCALE: NOT TO SCALE

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POND COIL SPACER

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INDIANA GEOTHERMAL INC.

Geothermal Pond Coil
Spacer Detail

SCALE: NOT TO SCALE

Pro-fax SG702
Polypropylene Copolymer
LyondellBasell Industries



Product Description

Pro-fax SG702 high flow, high impact polypropylene copolymer resin is designed for injection molding applications and is available in pellet form. Pro-fax SG702 resin has a UL yellow card RTI of 65°C and a flame rating of UL94HB; these apply to all colors at a minimum thickness of 0.059 inches.

General

Material Status	• Commercial; Active
Availability	• North America
Features	• Good Stiffness • High Flow • Low Temperature Impact Resistance
Uses	• Automotive Interior Parts • Household Goods • Plastics Modification
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	0.902	0.900 g/cm ³	ASTM D792B
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.900 g/cm ³ 18 g/10 min	0.900 g/cm ³ 18 g/10 min	ISO 1183 ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			
Yield ¹	3000 psi	20.7 MPa	ASTM D638
Yield, 73°F (23°C)	2900 psi	20.0 MPa	ISO 527-2
Tensile Elongation			
Yield	5.0 %	5.0 %	ASTM D638
Yield, 73°F (23°C)	5.0 %	5.0 %	ISO 527-2
Flexural Modulus			
1% Secant ⁴	150000 psi	1030 MPa	ASTM D790A
73°F (23°C)	150000 psi	1040 MPa	ISO 178
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Dart Drop Test ⁵ (-20°F (-29°C))	> 45.0 ft-lb	> 61.0 J	Internal Method
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F (-40°C)	2.0 ft-lb/in ²	4.3 kJ/m ²	
73°F (23°C)	12 ft-lb/in ²	26 kJ/m ²	
Notched Izod Impact			
73°F (23°C)	No Break	No Break	ASTM D256A
-40°F (-40°C)	2.2 ft-lb/in ²	4.6 kJ/m ²	ISO 180
73°F (23°C)	15 ft-lb/in ²	31 kJ/m ²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	185 °F	85.0 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	163 °F	73.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	118 °F	48.0 °C	ISO 75-2/A
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating - UL			UL 94
0.0590 in (1.50 mm), All Colors	HB	HB	
UL	Nominal Value (English)	Nominal Value (SI)	Test Method
RTI Str (0.0590 in (1.50 mm))	149 °F	65.0 °C	UL 746
RTI Imp (0.0590 in (1.50 mm))	149 °F	65.0 °C	UL 746
RTI Elec (0.0590 in (1.50 mm))	149 °F	65.0 °C	UL 746

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This information presented on this datasheet was acquired by IDES from the producer of the material. IDES makes substantial efforts to ensure the accuracy of this data; however, IDES assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Revision History
Document Created: Thursday, March 22, 2012
Added to Prospector: October 1998
Last Updated: 8/19/2009

Pro-fax SG702
Polypropylene Copolymer
LyondellBasell Industries
Notes

Thursday, March 22, 2012

Typical properties: these are not to be construed as specifications.

¹ 23°C

² 2.0 in/min (50 mm/min)

⁴ 0.039 in/min (1.0 mm/min)

⁶ Drop Weight Impact

Revision History

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