



Dri coPlex® 5300 Serie Climate Guard® Geothermal Piping System



Suggested Industry and Application

PERFORMANCE PIPE' Dri coPlex® 5300 Serie Climate Guard® piping system is recommended for use in closed-loop, ground coupled refrigerating and heating application .

Available Size

- ¾" IPS through 24" IPS size in straight length .
- ¾" IPS through 4" IPS available in coil' .
- Unicoil™ available in ¾" IPS, 1" IPS and 1 ¼" IPS size .

Specification Data

- The resin, pipe and fitting comply with the accepted industry standard ...
- ASTM D-3035 for pipe.
- ASTM D-2683 for socket fusion fitting .
- ASTM D-3261 for butt fusion fitting .
- ASTM F-1924, Sect. 3.1.6.1 for mechanical and tab fitting .

Typical Material Physical Properties of DriscoPlex® 5300 Series Polyethylene PE 3408 Pipe Resins

Property	Unit	Test Procedure	Typical Value
Material Designation	---	PPI/ASTM	PE 3408
Cell Classification	---	ASTM D-3350	345464C
Density [3]	g/cm ³	ASTM D-1505	0.955 (black)
Melt Index [4]	g/10 minutes	ASTM D-1238	0.10
Flexural Modulus [5]	psi	ASTM D-790	> 130,000
Tensile Strength [4]	psi	ASTM D-638	3200
SCG (PENT) [6]	hours	ASTM F-1473	> 100
HDB at 73.4°F (23°C) [4]	psi	ASTM D-2837	1600
UV Stabilizer [C]	%	ASTM D-1603	> 2
Linear Thermal Expansion	inch/inch/°F	ASTM D-696	9 x 10 ⁻⁵
Elastic Modulus	psi	ASTM D-638	110,000
Brittleness Temperature	°F (°C)	ASTM D-746	< -180 (< -118)
Vicat Softening Temperature	°F	ASTM D-1525	225
Hardness	Shore D	ASTM D-2240	64