

Product: RAUPEX® O₂ Barrier Pipe

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Category: RAUPEX Pipes

Submittal #: 102RAUPEXO2B

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Article No.	Nominal Diameter	A OD ¹ in. (mm)	B ID ³ in. (mm)	C Wall t ² in. (mm)	Weight lb/ft (kg/m)	Capacity Gal*/foot (l/m)
136008	3/8"	0.500 (12.7)	0.360 (9.1)	0.070 (1.8)	0.05 (0.07)	0.0050 (0.0624)
136031	1/2"	0.625 (15.9)	0.485 (12.3)	0.070 (1.8)	0.06 (0.08)	0.0098 (0.1222)
136880	5/8"	0.750 (19.1)	0.584 (14.8)	0.083 (2.1)	0.08 (0.11)	0.0134 (0.1671)
136051	3/4"	0.875 (22.2)	0.681 (17.3)	0.097 (2.5)	0.10 (0.15)	0.0189 (0.2356)
136011	1"	1.125 (28.6)	0.875 (22.2)	0.125 (3.2)	0.17 (0.26)	0.0316 (0.3939)
136283	1 1/4"	1.375 (34.9)	1.069 (27.2)	0.153 (3.9)	0.25 (0.37)	0.0467 (0.5827)
136293	1 1/2"	1.625 (41.3)	1.263 (32.1)	0.181 (4.6)	0.35 (0.52)	0.0650 (0.8118)
136288	2"	2.125 (54.0)	1.653 (42.0)	0.236 (6.0)	0.60 (0.90)	0.1114 (1.3906)

1- Average OD from ASTM F 876 2- Minimum Wall t from ASTM F 876 3- ID is calculated based on OD (1) and Wall t (2)

*US Gallon

TECHNICAL DESCRIPTION

Specification	English	SI	Standard	Specification	English	SI	Standard
Minimum Density	58 lb/ft ³	926 kg/m ³	ASTM F 876 DIN 53479	Tensile Strength	4194-4355 psi @ 68°F 2610-2900 psi @ 176°F	26-30 N/mm ² @ 20°C 18-20 N/mm ² @ 80°C	DIN 53455
Degree of Cross-Linking	70-89%	70-89%	ASTM F 876 DIN 16892	O ₂ Permeability	<=0.1 ppm /day @ 104°F	<=0.1 mg/l /day @ 40°C	DIN 4726
Thermal Conductivity	0.24 BTU/(hr ft °F)	0.41 w/(m°K)	DIN 52612	Temperature Working Range	-40°F to 200°F	-40°C to 93°C	N/A
Linear Exp.	9.33X10 ⁻⁴ in/ft°F @ 68°F 1.33x10 ⁻³ in/ft°F @ 212°F	0.14 mm/(m°C) @ 20°C 0.2 mm/(m°C) @ 100°C	DIN 42328	Roughness	e=0.00028 in	e=0.007 mm	N/A
IZOD Impact Res.	No Break	No Break	DIN 53453	Max. Short-term Exposure	150 psig @ 210°F (48 hr)	1035 kPa @ 99°C (48 hr)	ASTM F 876
Modulus of Elasticity	87,000 - 130,500 psi @ 68°F 43,500 - 58,000 psi @ 176°F	600-900 N/mm ² @ 20°C 300-400 N/mm ² @ 80°C	DIN 53457	UV Resistance	30 days	30 days	PPI TN-33

FUNCTIONAL DESCRIPTION

RAUPEX O₂ Barrier pipe is manufactured using REHAU's high-pressure peroxide method for cross-linked polyethylene (Engel method, PEXa). RAUPEX O₂ Barrier pipe has a co-extruded oxygen diffusion barrier that exceeds the strict requirements of DIN 4726. All RAUPEX O₂ Barrier pipe meets or exceeds the requirements of ASTM F 876, F 877, CSA B 137.5 and PPI TR-3, and is produced in REHAU's ISO 9001 certified manufacturing facilities.

RAUPEX O₂ Barrier pipe is rated for continuous operation of 160 psi @ 73.4°F (1105 kPa @ 23°C), 100 psi @ 180°F (690 kPa @ 82.2°C) and 80 psi @ 200°F (550 kPa @ 93.3°C). It is compatible with RAUPEX compression nut fittings and EVERLOC compression-sleeve fittings certified to ASTM F 2080 and CSA B 137.5.

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