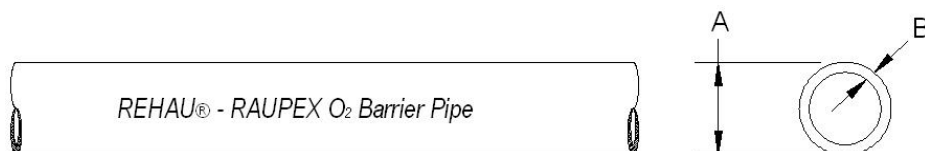


PRODUCT SUBMITTAL 104

Product: RAUPEX[®] O₂ Barrier Pipe, SDR 11

Date: 18 December 2014 (supersedes 30 April 2013)



Article No.	Nominal Size mm	Average O.D. (A) in (mm)	Minimum Wall Thickness (B) in (mm)	Weight lb/ft (kg/m)	Capacity gal/ft (l/m)	Bend Radius in (mm)
136549	10.1	0.415 (10.55)	0.047 (1.20)	0.03 (0.04)	0.0039 (0.049)	2.0 (50)

TECHNICAL DESCRIPTION

Specification	English	SI	Standard
Minimum Density	58 lb/ft ³	926 kg/m ³	ASTM F876
Minimum Degree of Crosslinking	70%	70%	ASTM F876
Max. Thermal Conductivity	2.84 Btu in/(ft ² °F hr)	0.41 w/(m ² K)	DIN 16892
Coefficient of Linear Expansion	1.00x10 ⁻³ in/ft°F @ 68°F 1.33x10 ⁻³ in/ft°F @ 212°F	0.15 mm/(m°C) @ 20°C 0.2 mm/(m°C) @ 100°C	Mean @ 20-70°C per DIN 16892
IZOD Impact Resistance	No Break	No Break	--

Specification	English	SI	Standard
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	Minimum @ 20°C per DIN 16892
O ₂ Permeability	--	<=0.32 mg/m ² /day @ 40°C	DIN 4726
Roughness	0.00028 in.	0.007 mm	--
Max. Short-term Temperature Exposure	150 psig @ 210°F (48 hr) 212°F at 100 hrs at 87 psi	1035 kPa @ 99°C (48 hr) 100°C at 100 hrs at 600 kPa	ASTM F876 ISO 15875
Maximum UV Exposure	15 days	15 days	--

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FUNCTIONAL DESCRIPTION

RAUPEX SDR11 pipe is produced using the high pressure peroxide method for crosslinked polyethylene (PEXa) in accordance with NSF SE1091, DIN 16892 and ISO 15875. RAUPEX SDR11 pipe is manufactured by REHAU using a quality management system which has been certified to the latest version of ISO 9001. RAUPEX O₂ Barrier SDR11 pipe has a co-extruded oxygen diffusion barrier that exceeds the strict requirements of DIN 4726. RAUPEX O₂ Barrier SDR11 pipe is red in color and compatible with RAUPEX compression nut fittings and EVERLOC® compression-sleeve fittings. RAUPEX O₂ Barrier SDR11 pipe is not to be directly buried.

LONG TERM STRENGTH

RAUPEX SDR11 is rated for conveying energy heating and cooling water at operating pressures/temperatures of 125 psi @ 73.4°F (860 kPa @ 23°C) and 80 psi @ 180°F (550 kPa @ 82.2°C) with a 2.0 safety factor on allowable working pressure according to ASTM and CSA. According to the REHAU *PEXa Limited Warranty*, the RAUPEX pipes are warranted for 25 years in operating conditions at or below 180°F (80.2°C) in permitted applications when handling, use, installation and maintenance continually complies with all REHAU technical guidelines.