

PREMIER™ TSM C50 HEAT SHRINK SLEEVE

With Thermal Indicator

Description

Premier™ TSM C50 Heat Shrink Sleeve (with indicator) consists of a crosslinked and stabilised polyethylene backing, coated with a butyl rubber adhesive.

Uses

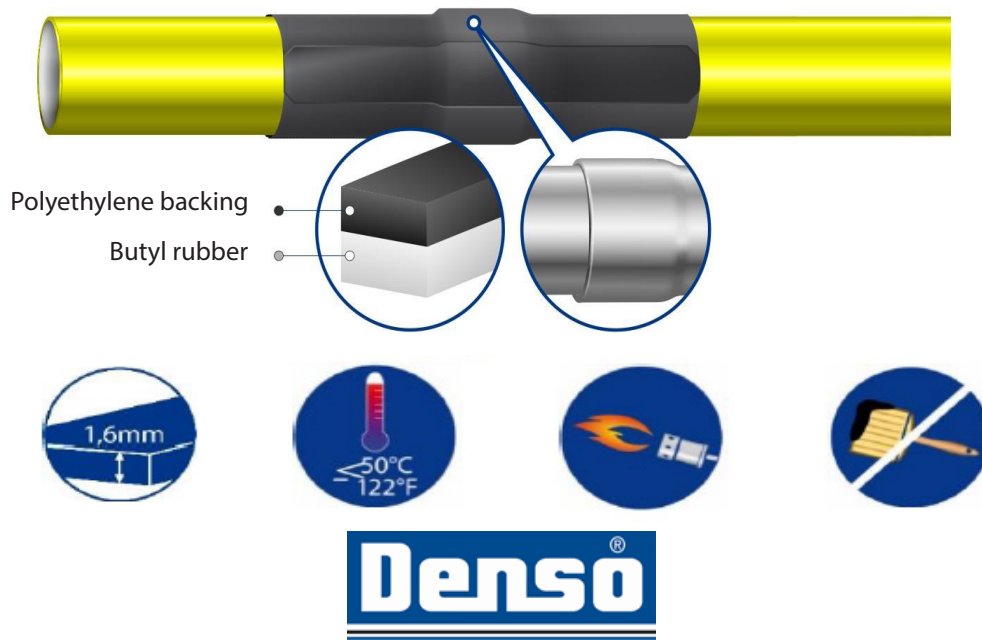
Used for the protection of socket joinings of buried or immersed pipelines of low alloy ferrous material as well as for the coating of conduit poles in the ground-to-air transition area.

Features

- Compliant to ISO 21809-3:2016 (Type 14A-1), DIN EN 12068:1999, DIN 30672:2000
- Warm-applied.
- Low water vapour and oxygen permeability.
- Compatible with factory coatings of polyethylene, polypropylene, epoxy polyurethane and bitumen.
- The surface pattern of the sleeve is a thermal indicator. With sufficient heat, the surface becomes smooth.

Application

Refer to Premier™ TSM C50 Heat Shrink Sleeve Application Instructions.



PREMIER™ TSM C50 HEAT SHRINK SLEEVE

Property Specifications

PROPERTIES	TEST METHOD	VALUE	
Maximum Service Temperature (DIN 30672, DIN EN 12068)		50°C	
Backing Thickness (Black Colour)		0.6 mm (DN < 150 mm)	
		0.8 mm (DN ≥ 150)	
Butyl Adhesive Thickness (White Colour)		1.0 mm	
Total Thickness		1.6 mm (DN < 150 mm)	
		1.8 mm (DN ≥ 150)	
Tape Strength	DIN EN 12068	18 N/mm, 21 MPa	
	ASTM D1000	19 N/mm, 22 MPa	
Elongation at Break	DIN EN 12068	450%	
	ASTM D1000	450%	
Hardness	DIN 53505 / ISO 868	45 Shore D	
Water Absorption	DIN EN ISO 62 / ASTM D570	0.08%	
Impact Resistance	DIN EN 12068	16 J	
	ISO 21809-3	9 J/mm	
Indentation Resistance at 23°C	DIN EN 12068 / ISO 21809-3	10 N/mm ²	
Indentation Resistance at 50°C	DIN EN 12068 / ISO 21809-3	10 N/mm ²	
	(Residual thickness)	1.0 mm (23°C), 0.8 mm (50°C)	
Specific Electrical Insulation Resistance	DIN EN 12068	>10 ¹⁰ ohm.m ²	
Dielectric Breakdown	ASTM D149	40 kV/mm	
Cathodic Disbondment, 28 days	DIN EN 12068 / ISO 21809-3	10 mm (50°C)	
Peel Strength	On Pipe Surface @ 10 mm/min	DIN EN 12068	1.0 N/mm (23°C), 0.2 N/mm (50°C)
	On Factory Coating @ 10 mm/min	ISO 21809-3, DIN EN 12068	1.0 N/mm (23°C), 0.2 N/mm (50°C)
	On Factory Coating @ 300 mm/min	ASTM D1000	12 N/mm (23°C), 1.0 N/mm (50°C)
Peel Strength - Layer/Layer @ 100 mm/min	DIN EN 12068 / ISO 21809-3	2.0 N/mm (23°C), 0.3 N/mm (50°C)	
	Layer/Layer @ 300 mm/min	ASTM D1000	6.0 N/mm (23°C), 0.5 N/mm (50°C)
Lap Shear Strength	On Steel @ 10 mm/min	DIN EN 12068 / ISO 21809-3	0.1 N/mm ² (23°C), 0.06 N/mm ² (50°C)
	On Factory Coating @ 10 mm/min	DIN EN 12068 / ISO 21809-3	0.1 N/mm ² (23°C), 0.06 N/mm ² (50°C)
	On Factory Coating @ 1.3 mm/min	ASTM D1002	0.05 N/mm ² (23°C), 0.03 N/mm ² (50°C)

Storage Temperature: +5 to 35°C. Store in a dry, well ventilated place in original packaging.

Packaging: Premier™ TSM C50 Heat Shrink Sleeve is available packed in cartons. One closure patch is delivered with each shrinkable sleeve. Prepared on nominal width (from DN 80 to DN 1000), with separate or fixed closing strip. Available width 300 mm and 450 mm. Other dimensions available on request.



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