

TRENCHCOAT™ Protective Film

Polyolefin
The Dow Chemical Company

Message:

TRENCHCOAT™The protective film is a double-layer adhesive film used to be compounded with galvanized steel to make corrugated steel pipes. TRENCHCOAT film can be compounded on coil, flat plate or ribbon galvanized steel, and then made into corrugated steel pipes or other products of similar structure. This film provides anti-corrosion and anti-wear protection for steel. TRENCHCOAT products should only be processed by Dow-approved composite processors. When making composite TRENCHCOAT steel pipes into corrugated steel pipes or spiral rib pipes, care should be taken to minimize damage to the film. The protective layer shall be repaired in accordance with ASTM A 762/762M Note II and AASHTO (American Association of State Highway and Transportation Workers) M245 Note II.

new experimental films are still under development. Please contact your Dow sales representative for your specific application.

General features:

Composite peak temperature: 350-450 °F (176-232°C)

yield: 202 sq ft/lb/mil

color: black

thickness range: 12.0 mil (.30mm)

width range: 10-62 in (254-1575mm)

compliance with FDA regulatory requirements: no

General Information			
Appearance	Black		
Forms	Films		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore D, 10 sec)	46	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.55		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	12.0 mil (0.30 mm)		Internal method
secant modulus			ASTM D882
MD	161	MPa	ASTM D882
TD	163	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	20.7	MPa	ASTM D882
TD: Fracture	19.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	470	%	ASTM D882
TD: Fracture	490	%	ASTM D882
Elmendorf Tear Strength - MD	2800 - 3200	g	ASTM D1922
Film width	254 - 1520	mm	Internal method
Yield (25.4 µm)	41.5	m²/kg	Internal method
Lamination peak metal temperature	177 - 232	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	87	kV/mm	ASTM D149
Additional Information			

耐受大多数酸碱,ASTM D1308,1400 小时,73°F:无变化不透性,ASTM A742,48 小时,试剂暴露:无变化耐受潮湿 SO2 侵袭,Kesternich DIN 50018.2.OL,40 个循环:无侵袭或粘接损失盐雾额定值:ASTM B117,1000 小时:最低 8Cleveland 冷凝湿度箱,ASTM D2247,暴露 6 个月,130°F:无侵袭或粘接损失耐气候性,ASTM D3361,3000 小时:无开裂或分层

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