



MP Backer Material A930

Polyethylene Foam Back-up Material

PE 墊底型材

1.0 Description 簡介

MP Backer Material A930 are tough, lightweight, closed-cell polyethylene foams having excellent shock-absorbing and heat-insulating properties. It is a durable, moisture-resistant and chemical-resistant materials with smooth surface appearance. MP Backer Rod easily fabricated into any shape under cut, sliced or punctured. Various colors and wide-range of densities are available.

2.0 Technical Data 技術資料

Item	Unit	Values	Testing Method
Cell Structure		Closed cell	
Density	kg / m ³	29	ASTM-D-1622
Compression Recovery@50%	%	95%	ASTM F-36
Compression Deflection@50%	psi	5 (34.47kPa)	ASTM-D-1621
Tensile Strength	kg / cm ²	3.4 (334kPa)	ASTM-D-1623
Tear Strength	kg / cm	1.8	ASTM-D-2261
Elongation (Tensile)	%	60	ASTM-D638
Shrinkage	% (70°C)	-0.75	In-House
Out-gassing		None	In-House
Water Absorption	mg / cm ²	0.023	ASTM-C-1016
Moisture Permeability	g / m ² 24 hrs	21	In-House
Thermal Conductivity	Kcal / mh°C	0.026	In-House
Dimension	Dia & .Length	Rod Form 8-65mm/2-100M Foam Board (Thickness) 6-65mm/1m x 2.4m/pcs	
Colour		White/Grey	

3.0 Area of Application

Back-up Rod

MP Backer Material is used as back-up and filler material for concrete joints and window frame prior to application of sealants.

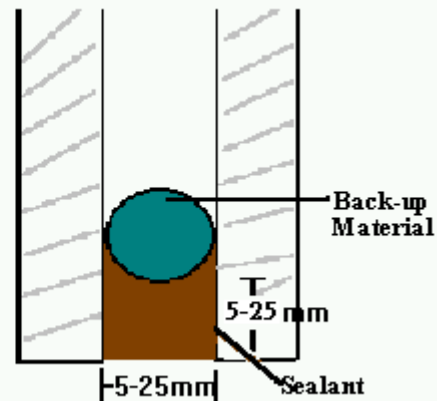
- ✓ Sash frames of glass window
- ✓ Back-up rod for curtain wall
- ✓ Expansion joints in rooftops, wall, pavement, tunnels, bridges, etc.

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4.0 Application Diagram

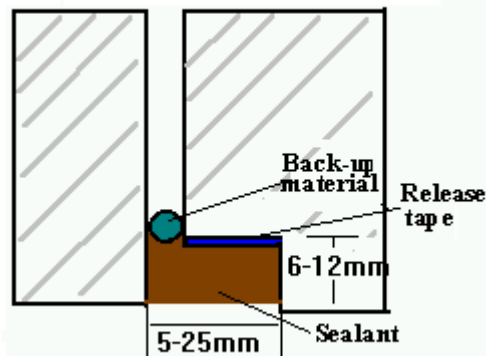
Joint Design Diagram A - Rod Form

Laboratory tests show that in butt joints an optimum performance is achieved when:
Width : Depth = 2 : 1
Wide joints may require more applications, allowing the sealant to cure slightly between application.



Joint Design Diagram B - Rod Form

If the joint is not deep enough to accommodate the foam backing strip, a self-adhesive polyethylene tape should be used to ensure that the sealant bonds only to the side of the joint.



5.0 Technical Advisory Notes

Rod-foam polyethylene is always preferred as it has thin surface skin which ensure minimum adhesion between sealant and back-up. It also has advantages in that it is difficult to twist or insert the wrong way. It is recommended to be used 25% oversize it result in the seal having a large bonding surface with a slightly waisted section, giving good stress distribution when deformed by movement.