XSISTECH - Technical Data

PU Foam Backer Rod

Product Description :

Extruded and shaped with expanded polyurethane material into round or square open cell structure. The Foam backer rod is highly flexible, light weight and highly durable. The excellent material properties make it suitable used to close expansion joints closed with sealant where curing form both end is need.

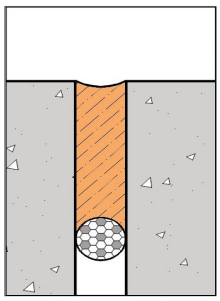
Physical properties

Density	30 ±1.0 g/cm^3	ASTM D 3574A
Cellular Structure	Fine upen cell	
Colour	Grey	
Indentation Force Deflection 25%	320 ±20 N	ASTM D 3574 B1
Tensile Strength	120< kPA	ASTM D3574 E
Elongation	90< %	ASTM D3574 E
Compression Set	10> %	ASTM D3574 D

Why open cell backer rod instated of close cell is chosen?

Backer rods are used as a "backing" material to fill a void, joint, or crack in residential and commercial applications. The primary purpose of backer rods is to:

- Control the sealant thickness and amount needed to fill the joint.
- Force the sealant to the sidewalls to ensure contact and proper adhesion.
- Act as a bond-breaker to avoid 3-sided adhesion of the sealant.
- Create the optimal sealant width to depth ratio, which is 2-1 for most sealants.
- Facilitates formation of an "hourglass" shape in the sealant for optimal performance as the joint expands or contracts.



Fast Curing from both end.
When deep sealing is required. Open cell structure of the backer rod allow air to pass through the backer rod and thus the curing of the sealant can be form both end and cure faster.

Prevent Bubbling.
If punctured during the time of installation, closed-cell backer rod will out-gas during the sealant curing process which cause sealant bubbling.

Indoor Applications.
Open-cell backing rods are often used in applications where water absorption is not a concern as open-cell backer rods are more prone to water absorption due to their porous structure.

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