

FC-SERIES

Micro Cell Impact Absorbing Foam



Product Description

EndoChem FC-Series foam is a specially formulated, micro-cell, polyurethane foam.

Features

- Super Small Cell Structure
- Low Compression Force
- Halogen Free
- ROHS

Applications

EndoChem FC-Series foam is typically used for electronic and automotive gap filling and sealing applications requiring ultra thin, compliant foam with low compression force and good moisture resistance.

Typical Properties

Product Line	FC010	FC050	FC120	FC200	FC300
Available Thicknesses (mm)	0.10	0.50	1.20	2.00	3.00
Density (kg/m ³) ASTM D3574	600	260	240	240	240
Tensile Strength (MPa) ASTM D3574	27.6	14.5	7.5	5.0	3.0
Tear Strength (kN/m) ASTM D624 Die C	66.3	35.8	13.8	8.6	5.3
Elongation (%) ASTM D3574	72	83	116	140	150
Maximum Compression (%)	30	50	60	60	60
Operating Temperature (°C)	0 to 70°C	0 to 70°C	0 to 70°C	0 to 70°C	0 to 70°C
RoHS Compliant	Yes	Yes	Yes	Yes	Yes
REACH Compliant	Yes	Yes	Yes	Yes	Yes
Halogen Free	Yes	Yes	Yes	Yes	Yes

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Typical Properties Continued

Compression Load Deflection - ASTM D3574					
Product Line	FC010	FC050	FC120	FC200	FC300
Force at 10% compression (kPa)	184.9	18.4	10.4	13.5	9.0
Force at 20% compression (kPa)	807.7	28.1	15.1	19.7	13.9
Force at 30% compression (kPa)	2831.6	42.8	19.4	25.2	19.3
Force at 40% compression (kPa)	N/A	77.8	25.8	34.5	28.1
Force at 50% compression (kPa)	N/A	225.5	40.5	60.0	47.5
Force at 60% compression (kPa)	N/A	N/A	94.5	207.0	112.5
Force at 70% compression (kPa)	N/A	N/A	N/A	316.0	773.0
Force at 80% compression (kPa)	N/A	N/A	N/A	N/A	N/A

Storage and Shelf Life

Recommended storage in a temperature controlled room at 18-25°C with a 50% nominal relative humidity. Under these conditions, shelf life is good for up to 12 months from the date of manufacture.

Warranty and Disclaimer: The user is solely responsible for evaluating the product and determining whether it is acceptable for use and suitable for the user's method of application. EndoChem warrants that each product meets the applicable EndoChem product specification at the time of shipment. If the EndoChem product does not conform to this warranty, then the sole and exclusive remedy is, at EndoChem's option, replacement of the product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, EndoChem will not be liable for any loss or damage arising from the EndoChem product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

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