

Rogers Corporation Bisco® MF1 8055 - 55 Silicone, High Performance Foam, Indentation Force Material

Category : Polymer , Thermoset , Silicone , Silicone Foam

Material Notes:

MF1® 8055 is a high quality silicone foam material designed for a wide range of cushioning and sealing applications. It features exceptional flame, smoke and toxicity (FST) characteristics, superior weather- and UV-resistance, and low compression set to endure safety, long-term comfort and durability. White is the standard color for MF1 foam. Available as slab or to specification. Information provided by Rogers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-Bisco-MF1-8055-55-Silicone-High-Performance-Foam-Indentation-Force-Material.php

Physical Properties	Metric	English	Comments
Density	0.128 g/cc	0.00463 lb/in ³	ASTM D1056

Mechanical Properties	Metric	English	Comments
Tensile Strength	0.0724 MPa	10.5 psi	ASTM D412
Elongation at Break	>= 60 %	>= 60 %	ASTM D412
Compression Set	0.00 %	0.00 %	50% compressed % max; ASTM D1056
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
Compression Set	0.00 %	0.00 %	50% compressed % max; ASTM D1056
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Flame Spread Index	<= 25	<= 25	BS 6853 - cat 1a (composite); BS 5852 - crib 7 (composite); PrEN 45545 - HL4; ASTM E162/ D3675
Smoke Density	1.5 min	1.5 min	<50; ASTM E662
	4.0 min	4.0 min	<20; ASTM E662

Descriptive Properties	Value	Comments
Durability	0% height loss	Jounce & Squim (1,000,000 cycles)
Flammability Test	Pass	FAR 25.853 (a)(1)(i); 60 sec
	Pass	FAR 25.853 (a)(1)(i); 12 sec

Indentation Force Deflection Descriptive Properties	55 lbs Value	ASTM D3574 B1; @ 2" thick Comments
Toxic Gas Emissions	Pass	Bombardier SMP 800C

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