

Michigan Foam Products supplies customers with options and expanded polystyrene product (EPS) diversity that is hard to find elsewhere. MFP has the ability to make hundreds of quality rigid EPS packaging solutions that can be formed and shaped into practically any shape or size to give your fragile products the necessary protection. It can also be used for just about any other EPS projects for commercial, residential, civil, and governmental applications that require the cushioning ability that EPS can handle.

			Density					
Classification			Type XI	Type I	Type VII	Type II	Type IX	Type III ³
Nominal Density		lb/ft ³ (kg/m ³)	0.75 (12)	1.00 (16)	1.25 (20)	1.50 (24)	2.00 (32)	3.00 (48)
Density ¹ , min.		lb/ft ³ (kg/m ³)	0.70 (12)	0.90 (15)	1.15 (18)	1.35 (22)	1.80 (29)	2.70 (43)
Property	Units							
Design Thermal Resistance Per 1.0 in. thickness	75°F	°F·ft ² ·h/Btu (°K·m ² /W)	3.22 (0.57)	3.85 (0.68)	3.92 (0.69)	4.17 (0.73)	4.35 (0.77)	4.70 (0.83)
	40°F		3.43 (0.60)	4.17 (0.73)	4.25 (0.75)	4.55 (0.80)	4.76 (0.84)	
Thermal Resistance ¹ Per 1.0 in. thickness	75°F	°F·ft ² ·h/Btu (°K·m ² /W)	3.10 (0.55)	3.60 (0.63)	3.80 (0.67)	4.00 (0.70)	4.20 (0.74)	4.30 (0.77)
	40°F		3.30 (0.58)	4.00 (0.70)	4.20 (0.74)	4.40 (0.77)	4.60 (0.81)	
Compressive Strength ¹ @10% def., min		psi (kPa)	5.0 (35)	10.0 (69)	13.0 (90)	15.0 (104)	25.0 (173)	50.0 (347)
Flexural Strength ¹ Min.,		psi (kPa)	10.0 (70)	25.0 (173)	30.0 (208)	35.0 (276)	50.0 (345)	67.5 (466)
Water Vapor Permeance ¹ of 1.0 in. thickness, max.		perm	5.0	5.0	3.5	3.5	2.5	2.0
Water Absorption ¹ By total immersion, max.		Volume %	4.0	4.0	3.0	3.0	2.0	1.0
Oxygen Index ¹ Min.		Volume %	24.0	24.0	24.0	24.0	24.0	24.0
Flame Spread ²			20	20	20	20	20	20
Smoke Developed ²			150-300	150-300	150-300	150-300	150-300	150-300

1. Please refer to ASTM C578-18 Standard Specification for complete information
2. See UL Certificate available from Michigan Foam Products
3. Type III is no longer an ASTM C578-18 classification