

**Standard Industrial Materials-Supported*****Product Availability: Special Industrial Materials Supported*****Effective: August 2000****Supersedes: August 1999****PORON 4790-92: EXTRA LOW MODULUS (EXTRA SOFT) Slow Rebound - Supported****COLOR: BLACK (04)**

Product Number	PRODUCT DESCRIPTION	ROLL SIZE									
		THICKNESS		WIDTH		LENGTH		TOTAL		APPROX. WEIGHT	
		inches	mm	inches	mm	feet	m	sq. ft.	sq. m	lbs.	Kg
0349	4790-92-25021-04	0.021	0,53	44U	1118	475	144,78	1,742	161,80	101	46
0353	4790-92-25041-04	0.041	1,04	44U	1118	350	106,68	1,283	119,22	129	58
0356	4790-92-20081-04	0.081	2,06	44U	1118	225	68,58	825	76,64	123	56
0358	4790-92-15120-04	0.120	3,05	44U	1118	165	50,29	605	56,20	100	45

**PORON 4701-50: HIGH MODULUS (FIRM) Thin Supported****COLOR: BLACK (04)**

7581	4701-50-30012-04	0.012	0,30	44U	1118	600	182,88	2200	204,38	86	39
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**AVAILABILITY OF SUPPORTED INDUSTRIAL MATERIALS**

PORON® urethane materials are produced on a "make to order" basis. Although off-the-shelf stock may be available for standard grades and thicknesses, normal lead time for supported industrial materials is three weeks. Check with your Customer Service Representative for your specific requirements.

**SUPPORTED MATERIALS**

Supported materials are directly cast onto 2 mil polyester (PET) film. The thickness of the film is represented in the product description. The bond of the foam to the film will be permanent.

**TOLERANCES**

Length tolerances of rolls shipped is + 5% / - 0% of ticketed length.

Thickness tolerances are as follows:

Density	15	20	25	30
Tolerance, %	±10	±15	±20	

Exception: Thickness tolerance for 4701-50-30012 is ± 0.003".

**PRODUCT WIDTH**

Supported materials are provided untrimmed. Untrimmed materials will be fractionally wider than the stated width. The stated width is the amount of good material charged for.

**NON-STANDARD MATERIALS**

For available non-standard thicknesses and widths call your Customer Service Representative.

To obtain a non-standard color (For available colors see color card) contact your Customer Service Representative. Custom colors are available and are subject to higher minimum orders and color matching charges.

All orders are subject to written acceptance at our Woodstock, Connecticut offices and to all other "standard terms and conditions of sale". We reserve the right to change at any time and without notice, the prices of our products quoted herein.

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**PORON® Cellular Urethane Foams****PORON® 4701-30 Very Low Modulus Grade (Very Soft) - Supported***Preliminary Product Properties*

PROPERTY	TEST METHOD	VALUE	
<b>Density</b> , lb./ft <sup>3</sup> (kg/m <sup>3</sup> )	ASTM D3574 - Test A	20 (320)	25 (400)
Tolerance, %		± 10	
<b>Thickness</b> , inches (mm)	-	0.064 - (1.63) 0.095 - (2.36)	0.021 - (0.53) 0.037 - (0.94) 0.047 - (1.19)
Tolerance, %	-	± 10	± 15
<b>Physical</b>			
<b>Standard Color</b> , (Code)	-	Black (04)	
<b>Compression Set</b> , %, max.	ASTM D3574 - Test D @ 73°F (23°C)	2	
.	ASTM D3574 - Test D @ 158°F (70°C)	10	
.	ASTM D3574 - Test J / Test D after autoclaved 5 hrs. @ 250°F (121°C)	5	
<b>Compression Force Deflection</b> , psi (kPa)	0.2"/min. Strain Rate. Force Measured @ 25% Deflection	3 - 9 (21 - 62)	8 - 15 (55 - 104)
<b>Fogging</b>	SAE-J1756 3 hrs. @ 212°F (100°C)	Pass	
<b>Hardness</b> , Durometer Shore "O"	ASTM D2240-97	8	16
<b>Outgassing</b> , Total Mass Loss (TML), % typical	ASTM E595 24 hrs. @ 257°F (125°C) @ <7x10 <sup>-3</sup> Pa	1	1.3



PROPERTY	TEST METHOD	VALUE	
Collected Volatile Condensable Materials, (CVCM) %, typical		0.1	0.2
Water Vapor Regain, (WVR), %		0.3	0.6
<b>Thermal</b>			
<b>Temperature Resistance</b> Cold Flexibility	MIL-P-12420C @ -40°F (-40° C)	Pass	
Embrittlement	ASTM D746	-60°F - (-51°C)	
Recommended Constant Use, max.		158°F - (70°C)	
Recommended Intermittent Use, max.		250°F - (121°C)	
<b>Thermal Conductivity</b> , BTU-in/hr-ft <sup>2</sup> -F	ASTM C518	0.076 (0.53)	-
<b>Coefficient of Thermal Expansion</b>		2.3 - 3.1 x 10 <sup>-4</sup> in / in / °C	
<b>Electrical</b>			
<b>Surface Resistivity</b> , ohm/sq. <b>Volume Resistivity</b> , ohm.cm	ASTM D257	5.9 x 10 <sup>11</sup> 3.1 x 10 <sup>11</sup>	
<b>Dielectric Constant</b> , K' ("DK")	ASTM D150 measurements @ 72°F (22°C) relative humidity 50% for 24 hrs.	1.75	
<b>Dissipation Factor</b> , tan D ("DF")	ASTM D150	0.05	
<b>Dielectric Strength</b> , volts/mil	ASTM D149	50	
<b>Environmental</b>			
<b>Corrosion Resistance</b>	AMS 3568	Pass	
<b>Mildew/Bacterial Resistance</b>	ASTM G-21-96	Good	
<b>Ozone Resistance</b>	GM4486P	Pass	



# MERRYWEATHER FOAM, INC.

An ISO9002 Certified Company

PROPERTY	TEST METHOD	VALUE	
<b>Skin Contact</b>	Schwartz and Peck Human Patch Test	No Irritation	
<b>Staining</b>	ASTM D925-88	No stain	
<b>UV Resistance</b>	ASTM G53-95	Good	
<b>Water Absorption, % wt gain, typical</b>	AMS 3568	2	
<b>Immersion Testing, % wt gain, typical</b>	ASTM D570	9	14
<b>Chemical</b>			
<b>Additional Solvent Resistance</b>	<ul style="list-style-type: none"><li>- Antifreeze and Water 50/50</li><li>- Windshield Washer Solution</li><li>- Electrical Grease</li><li>- Soap and Water 50/50</li></ul>	No tackiness or surface deterioration	

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