

POLYHEDRON LABORATORIES[®], INC.

PLASTICS, POLYMERS and RUBBER TESTING

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PO: PSI2936

Polysource, Inc.
P.O. Box 916
Piqua, OH 45356

Attn: Mr. Andy Palmer

Analytical Report

CFR 177.1640 - CFR 176.170

Sample - PSI 305 Expanded Polystyrene Foam

	<u>Found</u>	<u>Specification</u>
Styrene	0.069%	< 0.5%
	<u>mg/ in²</u>	<u>mg/ in²</u>
A Water Extractable 250°F/ 2 hrs.	0.09 0.07	< 0.5
B Water Extractable 212°F/ 30 min.	0.01 0.02	< 0.5
C Fill Boiling Water Extractables Cooled to 100°F	0.08 0.08	< 0.5
D Water Extractable 150°F/ 24 hrs.	< 0.01 < 0.01	< 0.5
E Water Extractable 120°F/ 24 hrs.	0.16 < 0.1	< 0.5
F Water Extractable 70°F/ 48 hrs.	< 0.1 0.2	< 0.5
H	See condition B	< 0.5

	<u>mg/ in²</u>	<u>Specification mg/ in²</u>
A Heptane Extractable 150°F/ 2 hrs.	0.19 0.23	< 0.5
B Heptane Extractable 120°F/ 30 min.	0.01 0.01	< 0.5
C Heptane Extractable 120°F/ 15 min.	0.09 0.12	< 0.5
D Heptane Extractable 100°F/ 30 min.	0.04 0.17	< 0.5
E Heptane Extractable 70°F/ 30 min.	0.02 0.02	< 0.5
F	See condition E	< 0.5
G	See condition E	< 0.5
H	See condition B	< 0.5
D 8% Alcohol Extractable 150°F/ 2 hrs.	< 0.07 0.009	< 0.5
E 8% Alcohol Extractable 120°F/ 24 hrs.	0.01 < 0.01	< 0.5
F 8% Alcohol Extractable 70°F/ 48 hrs.	< 0.01 < 0.01	< 0.5
D 50% Alcohol Extractable 150°F/ 2 hrs.	0.06 0.04	< 0.5
E 50% Alcohol Extractable 120°F/ 24 hrs.	0.06 0.10	< 0.5
F 50% Alcohol Extractable 70°F/ 48 hrs.	< 0.01 < 0.01	< 0.5

Conclusions

The PSI 305 expanded polystyrene foam complies with CFR 177.1640 and CFR 176.170



Howard Kaye, Ph.D., FAIC
Director

HK/dr

All samples will be discarded within two months.