

PVC U GUARD >>> TEST RESULTS

ILPEA INDUSTRIES, INC.
PLASTIC & MAGNETIC PRODUCTS
745 S. Gardner Street
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LABORATORY - R&D - Plastics Division

Analysis Report #: 421-422-09

Date: 2/21/2011

Prepared By: MBinkley

Subject: Ilpea Rigid PVC Evaluation to Alternative Compounds

Origin: Ilpea Industrie, Malgesso

PROPERTY	U/M	Ilpea 245179	K-Bin KB-5060	Axiall GG5055	Prime P5212
Dynamic Thermal Stability	Minutes	40	30	17	45
Hardness	Sh/D	78	78	80	79
Density	g/cm3	1.43	1.44	1.42	1.52
IZOD	J/m	150	120	136	136
Vicat 5Kg	°C	80	81	83	79
Ash Content	%	12.8	14.5	11	20
K Value	n/a	59	65	68	60



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ASTM 01435-05 Standard Practice for Outdoor Weathering of Plastics

Abstract

Scope

1.1 This practice is intended to cover procedures for the exposure of plastic materials to weather.
Note 1 See Practice G 24 for aging under glass.

1.2 This practice is limited to the method by which the material is to be exposed and the general procedure to be followed. It is intended for use with finished articles of commerce as well as with all sizes and shapes of test specimens.

1.3 Means of evaluation of the effects of weathering will depend on the intended use for the test material.

1.4 The values stated in SI units are to be regarded as the standard.

This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

This standard and ISO 877.2-1991, Method A, are technically equivalent.



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PVC Nonconductive Power Mold:

PVC Nonconductive Power Mold is inherently nonconductive and nonflammable as designed for protecting power cable installed on poles.

Ilpea PVC power mold was designed to meet or exceed guidelines outlined in the National Electrical Safety Code.

Ilpea PVC power mold is designed in accordance with NEMA TC-19 and is Ultraviolet, cold temperature and corrosive atmosphere resistant.

PVC power mold acts as an insulator against electrical shock and requires no maintenance for dirt build up.

ISO 9001



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TECHNICAL SPECIFICATION**Ilpea PVC Power Mold Pole Riser System****SCOPE**

This specification covers the requirements for Ilpea nonconductive Power Mold pole riser system. Nominal sizes 2" to 6" are manufactured to meet NEMA TC-19.

MATERIALS

The PVC (polyvinyl chloride) nonconductive U-type guard shall be made from PVC plastic compound that meets the minimal cell classification of PVC 12333D as defined in ASTM D1784. Standard Specification for Rigid PVC compounds.

MARKING

Each length of U-type guard shall be clearly marked at least every 5 feet with the material designation, nominal size and the name or trademark of the manufacturer.

PIPE

The U-type guard is manufactured for mechanical protection of electrical cable. They are nonconducting, lightweight and impact resistant. Standard test for impact resistance to ASTM D2444, sunlight resistance to ASTM D1435 and flame resistance to UL 651.

TEST REQUIREMENTS

Quality testing is as per Ilpea Quality Control program and in accordance with NEMA TC-19.



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