

Polijel P-213-ALM

High performance gelcoat

Product Description

Polijel P-213-ALM is an isophtalic/NPG based, acrylic modified, thixotropic, pre-accelerated, high advance exterior use gel-coat. It is not pigmented and natural-transparent gel coat. Polijel P-213-ALM is designed for production of kitchen counter-tops, wash basins, chemical tanks and crafts. Polijel P-213-ALM gives very high physical, chemical and heat resistance and also aesthetic appearance as well.

Highlights

- It doesn't show any fatigue and cracking, especially on heat differences
- Excellent scratching and anti-matting properties
- Excellent Water resistance
- Long term gloss retention
- Excellent weather resistant and resistance to yellowing - UV Resistance

Certificates and Approvals

- Lloyd's Register,

Key Features

Base	ISO / NPG, acrylic Modified
Appearance	Transparent
Versions	RAL Colors, Brush type
Accelerator	Yes

Typical Liquid Propertis

Specification	Value		Unit	Test Method
	Polijel P-213-ALM Spray Type	Polijel F-213-ALM Brush Type		
Viscosity ¹	1600	6500	cp	ISO 2555
Thixotropy	Thixotropic	Thixotropic	-	-
Gel Time ²	12	12	min	ISO 2535
Shelf life ³	6	6	months	-

Remarks

- 1 Viscosity measured at 23°C with Brookfield DV-III Rheometer (spindle 4, 50/5 rpm for spray type, spindle 6, 50/5 rpm for brush type).
- 2 Gel time measured at 23°C with 1 ml Mek-P (Butanox M 60 - 9,9 % Active oxygen) added to 100 gr gelcoat.
- 3 Please read the storage conditions.

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Customer support

<http://www.poliya.com/en/support>

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Mechanical Properties

Cured Resin Values

Property	Value	Unit	Test Method
Heat Deflection Temperature HDT	93	° C	ISO 75-A
Heat Deflection Temperature HDT	101	° C	ISO 75-B
Water Absorption	0,160	%	ISO 0062
Barkol Hardness (Barcol 934-1)	48	-	ASTM-D 2583
Flexural Strength	124	MPa	ISO 0178
Elongation at Break	4,4	%	ISO 0178
Tensile Strenght	68	MPa	ISO 0527
Elongation at Break	2,6	%	ISO 0527

Remarks

As mentioned above data is valid base resin.
Before the mechanical tests, the cured resin is post-cured.

Handling and Storage Conditions

The product should be stored indoors in the original, unopened, damage free packaging, in a dry place at temperatures under 23°C. If the resin temperature falls below 18°C it should be warmed up to a minimum of 18°C before use. Storage and handling of flammable liquids is subject to national or local regulations so always ensure that storage complies with those regulations. Shelf life is reduced at higher temperatures and the properties of the resin might change with increased time of storage.

The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light. Store in dark and in 100% light tight containers only.

Avoid contact with food or drinks. Avoid conditions that could cause static electric discharge. Use only in well-ventilated areas. Keep away from open heat, flame and sparks. Avoid contact with eyes, skin or clothing. Do not spill on the environment. Dispose of contents and container according to local, regional and national regulations. Use personal protective equipment during use. Always keep the container closed. Prevent contact with vapors by providing sufficient ventilation of the working area, and by using approved respiratory protection. Ensure that dust from finishing operations is kept under control by collection devices and by effective ventilation.

Empty packagings are subject to same classification as the product.

A Material Safety Data Sheet of this product is available on request.

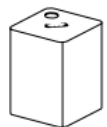
Internal test methods (OT) referred to in the table(s) of this documents are available on request.

Warning

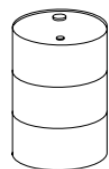
This product can expose you to styrene, which is known to the state of California to cause cancer. For more information, visit www.Prop65Warnings.ca.gov

Packaging

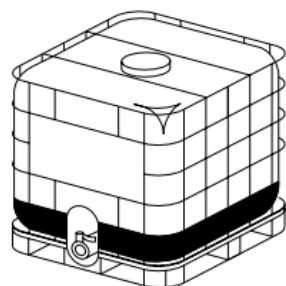
Group A / Standard Packaging



18 kg Pail
23,5x23,5x35cm



230 kg Barrel
Ø58x88,5cm

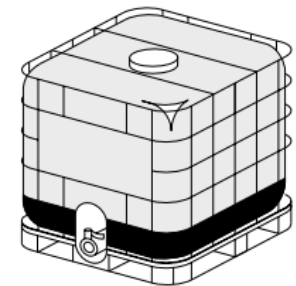


1.100 kg IBC
120,5x100,5x116,5cm

Group B / Recon. Packaging



230 kg Recon. Barrel
Ø58x88,5cm

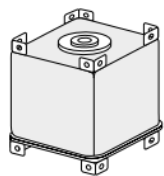


1.100 kg Recon. IBC
120,5x100,5x116,5cm

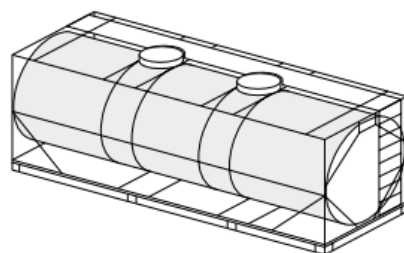


Recond. is classified as sub-standard packaging. SVP F03 substandard packaging approval form is required before placing any order including reconditioned packaging.

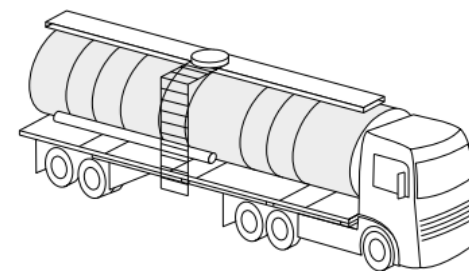
Group D / Bulk Resins



1.750 kg Steel Tote
112x112x153cm



22.000 kg ISO Tank Container
2.45x6.10x2.60mt



22.000 kg Bulk Tanker
Including semi - tractor trailer 14.20 mt



Optional Steam heating line



Optional Long term renting



Optional Warm shipment in winter