

LAPOX[®] P-4 (ARP-14)

Technical Data Sheet | Polymers Business



Description

Lapox P-4 (ARP-14) is an unmodified medium molecular weight solid epoxy resin (type-4) based on bisphenol-A. It is available in the form of flakes. It provides uniform rate of esterification with various fatty acids hence it is suitable for production of epoxy esters. Such epoxy esters are used as base polymer for wide range of enamels and various protective coating applications. The coatings will exhibit excellent adhesion and flexibility. It is also suitable for functional and decorative powder coatings. It can be cured with dicyandiamide, its derivatives and carboxyl-terminated polyesters.

Advantages

Good flow, leveling
Good storage stability of powders
High impact strength
Very good flexibility of films

Applications

Epoxy-polyester hybrid powder coatings
Pure epoxy powder

Processing

Powder coatings

Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Light-yellow solid flakes
Colour ¹	GS	ASTM D1544	Max 2
Epoxy value	Eq/kg	ASTM D1652	1.12 - 1.20
Viscosity at 25°C ¹	m Pas	ASTM D2196	550 - 700
Softening point ²	°C	ASTM E28	90 - 102
Epoxy equivalent weight (EEW)	g/eq	ASTM D1652	833 - 892

¹40% solution in butyl carbitol

²Ball and ring method

Packaging

Lapox P-4 (ARP-14) is available in 25 kg bags. Other packing may be considered on request.

Storage and handling

Lapox P-4 (ARP-14) should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf-life of 2 years, if stored in its original container between 18°C and 25°C away from humidity and excessive heat. Please refer to the Safety Data Sheet (SDS) for detailed instructions on storage and handling.

Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, the resin should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the SDS for detailed safety instructions.

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Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

Contact

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Note

Lapox[®] is a registered trademark of Atul Ltd.

Manufacturing site

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