

POLYSORB® LP, POLYSORB® PA

Isosorbide

Description

POLYSORB® LP is a high purity grade of isosorbide under liquid form (80% D.S.).
 POLYSORB® PA is a high purity grade of isosorbide under pellets form.
 All grades are compatible with polymers for food contact applications.

POLYSORB® helps enhance properties :

- Temperature resistance (POLYSORB® is an aliphatic diol that insure the highest increase of glass transition in polyesters),
- Optical properties (reduce haze in polyester),
- Surface hardness.

POLYSORB® offers valuable solutions to performance materials markets: polyesters, composites and coatings, polyurethanes, etc.

On request, our team will help you to adopt the best grade tuned to your application.

Definition

Isosorbide/1,4 - 3,6 - dianhydrohexitol - CAS N°[652-67-5]

Specifications

| | POLYSORB® LP | POLYSORB® PA |
|----------------------------|------------------|----------------------|
| Appearance | liquid | solid, white pellets |
| Purity | 99.5% min. /D.S. | 99.5% min. /D.S. |
| Water content | 20.0% max | 1.0% max |
| pH, 40% aq. Solution | 6.5 - 8.5 | 6.5 - 8.5 |

Indicative values

| | | |
|------------------------------------|--------------------|---------------------|
| Melting point..... | - | around 63°C |
| Solubility in ethylene glycol..... | - | Up to 60 w% at 25°C |
| Specific rotation | around + 46.0 deg. | around + 46.0 deg. |



100% bio-based monomer
to improve

Chemical resistance
 Mechanical properties
 Temperature resistance



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