

## EXPOL PE 380

### AROMATIC POLYESTER POLYOL

#### Description

EXPOL PE 380 is a difunctional hydroxyl terminated polyester resin of low viscosity. This aromatic polyester polyol is designed to provide enhance solubility of Cyclopentane in formulation when combined with other polyether or polyester Polyols.

The aromatic structure of EXPOL PE 380 enhances the fire retardancy of the foams formulated with it. Also the smoke generation from such foams is lower. It is miscible with most of the Polyethers as well as Amino Polyols and its low viscosity permits a good processability.

#### Typical Properties

Appearance	Visual	Clear liquid
Viscosity at 25 °C	cP	1800 ± 300
Hydroxyl number	mg KOH/g	370 ± 20
Acid Value	mg KOH/g	2.5 ± 0.5
Moisture content	%	< 0.2
Specific Gravity at 25 °C		1.09 ± 0.03

#### Applications

EXPOL PE 380 can be used in a wide range of Polyurethane and Polyisocyanurate foam formulations. Applications include rigid board stock, sprayed insulation, high and low density extender alternatives and a partial substitute, with technical and economical advantages in PUR systems.

#### Storage and Handling

EXPOL PE 380 is slightly hygroscopic and should therefore be stored under cool and dry conditions at 20 – 40 °C. Even under these conditions EXPOL PE 380 absorbs small quantities of atmospheric moisture. EXPOL PE 380 should be protected against moisture. High amount of water may hydrolize it, disturbing its ulterior reaction with isocyanate. Partially used drums should be properly resealed before keeping for extended storage.

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#### Health and Safety

EXPOL PE 380 is physiologically harmless.

This product is not particularly dangerous for health. In any case is suggested to observe following precautions:-

- To wear appropriate protection for body and eyes
- The working room must be ventilated
- In case of contact with skin or eyes to wash accurately with clean water and if sprayed on eyes ask for medical intervention.
- To absorb eventual losses with sand or sawdust.

Polyurethanes produced from this product may present a fire hazard in certain applications if exposed to fire and/or excessive heat and oxygen, e.g., welding and cutting torches.

Expanded Polymer Systems Pvt. Ltd. guarantees that its products are of the highest quality provided that the conditions recommended in the present instructions are carried out regarding their conservation, maintenance and use.

The high quality of Expanded Polymer Systems Pvt. Ltd. products does not exonerate the Buyer-User from making his own checks as to the suitability of the product.

Expanded Polymer Systems Pvt. Ltd. will not stand responsible for any emerging problems occurring in the eventual transformation of its products which is taken at the risk of the Buyer-User, therein including possible disputes regarding the patents of third parties. The information herein presented is given in good faith, but no warranty, expressed or implied is made. Consult Expanded Incorporation for further information.

#### Shelf Life

Shelf life under specified storage conditions is 6 months.

#### Packaging

EXPOL PE 380 is shipped in standard M.S.Drum packing of 215 Kgs.Net.