



DESMOPHEN 1652A

Saturated Polyester

Description

Desmophen 1652A is a solvent-free linear saturated polyester resin.

Application

Desmophen 1652A polyester is recommended as a coreactant for Desmodur CB polyisocyanates. Drying films are obtained with this combination only when over-indexed with the Desmodur CB polyisocyanates, Desmophen 1652A can be combined with Desmophen polyesters 800, 1100, and R 12A to give coatings suitable for flexible substrates.

In combination with Mondur MRS polyisocyanate, Desmophen 1652A polyester can be used for the formulation of joint sealants and resilient coatings. Uses in high-humidity rooms and outdoor environments are limited because the resultant coatings generally have inadequate chemical and water resistance for such applications. As with any product, use of Desmophen 1652A in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Typical Properties*

Property	Value
Appearance	light yellow liquid
Water content, wt. %	0.2 maximum
Solids, wt. %	100
Color, Gardner	no. 3 maximum
OH content, %	1.7
Viscosity @ 23°C, mPa s	9000 – 13000
Hydroxyl number	56
Specific gravity @ 20°C	1.17
Equivalent wt., avg. (as supplied)	1002
Weight per gallon, lb. @ 25°C	9.7
Acid number	2.0 maximum
Flash point (Setaflash)	>350°F(177°C)

Solubility

Desmophen 1652A polyester is soluble in esters, ether esters, and ketones. Aromatic hydrocarbons may be used as diluents. Aliphatic hydrocarbons are unsuitable for use as solvents and diluents.

Compatability

Desmophen 1652A is compatible with Desmophen polyesters 800, 1100, 1700, 1800 and R 12A. Compatibility with polyether polyols is borderline.

* These items are provided as general information only. They are approximate values and are not part of the product specifications.

Storage

Desmophen 1652A polyester is hygroscopic. Containers must be kept tightly closed to prevent contamination with moisture and foreign materials. Undesirable side reactions may occur when contaminated hydroxyl-bearing resins are formulated with polyisocyanates. Recommended storage temperatures are 32–122°F (0–50°C). The shelf life is twelve months after receipt of material by customer, when stored in closed original containers 77°F (25°C).

Health and Safety Information

Appropriate literature has been assembled which provides information pertaining to the health and safety concerns that must be observed when handling Desmophen 1652A polyester. For materials mentioned that are not Bayer products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer should be followed. Before working with any product mentioned in this publication, you must read and become familiar with available information concerning its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms such as material safety data sheets and product labels. For further information contact your Bayer MaterialScience representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, Pa.

Note: The information contained in this bulletin is current as of October 2006. Please contact Bayer MaterialScience to determine whether this publication has been revised.

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