

ARCOL[®] Polyol 1105 S - for flexible slabstock foams

General Properties and Applications

Arcol[®] Polyol 1105 S is a low VOC (volatile organic compounds), medium molecular weight polyoxypropylene triol. It is used extensively in the production of conventional flexible slabstock foams. Because of its specific structure, it is particularly suitable for the manufacture of combustion modified ether (CME) foams meeting BS 5852, Part 2, Crib 5. The antioxidant package used in Arcol[®] Polyol 1105 S is amine free.

Sampling

Moisture access must be prevented when taking product samples.

Specification Property	Value	Unit of measurement	Method
Hydroxyl number	54 - 57	mg KOH/g	PET-11-01
Water content	≤ 0.05	% by wt.	PET-19-01
Viscosity 25 °C	525 - 635	mPa·s	PET-10-01
Colour APHA	≤ 100		PET-06-01
Unsaturation	≤ 20	mEq/kg	PET-18-01
Acid number	max. 0.1	mg KOH/g	PET-01-01

Other Data* Property	Value	Unit of measurement	Method
Appearance	colourless to pale liquid		PET-03-04
Density 25 °C	1.01	g/cm ³	DIN 51757
Flash point	> 116	°C	DIN EN 22719
Specific heat capacity (Cp) at 25 °C	1.89	kJ/kg · K	DIN 51007
Thermal conductivity at 20 °C	0.15	W · m ⁻¹ · K ⁻¹	DIN 52612-1
TDI basic value	8.6	pbw Desmodur [®] T on 100 pbw Arcol [®] Polyol 1105 S	

* These values provide general information and are not part of the product specification

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Storage	<p>Recommended storage temperature (°C): 10 - 35</p> <p>Shelf life (ex works)</p> <p>12 months if stored in sealed, moisture-tight containers</p> <p>Partially used containers should be tightly resealed due to the hygroscopic nature of the product.</p> <p>Recommended temperature for processing (°C): 20 - 25.</p>
Labeling and REACH applications	<p>This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.</p>
Directions for Processing	<p>Arcol[®] Polyol 1105 S is generally subject to the same processing conditions as any other standard polyether.</p> <p>Arcol[®] Polyol 1105 S can be blended with other polyols including polymer polyols.</p>

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This product is not designated as „Medical Grade“* and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient's body (e.g., skin, body fluids or tissues, including indirect contact to blood)*. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, Bayer MaterialScience AG must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices must be made solely by the purchaser of the product without relying upon any representations by Bayer MaterialScience AG. * Please see the "Guidance on Use of Bayer MaterialScience Products in a Medical Application" document. In case of questions, please contact: productsafety@bayerbms.com

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