Technical Data Sheet

Pearlstick™ 45-50/29 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a medium-low thermoplasticity level.

SPECIFICATION

*Viscosity @ 20°C (Brookfield RVF sp 5, 20 rpm.)*

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Values*</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density @ 20°C</td>
<td>1.19 g/cm³</td>
<td>ISO 2781</td>
</tr>
<tr>
<td>Hydroxyl number</td>
<td>Approx. 0.1%</td>
<td>MQSA 47A</td>
</tr>
<tr>
<td>Hydrolysis resistance</td>
<td>Good</td>
<td>MQSA 34B</td>
</tr>
<tr>
<td>Minimum Activation Temperature</td>
<td>Approx. 55°C</td>
<td>EN-12961</td>
</tr>
</tbody>
</table>

*These are typical values & should not be used for establishing specifications.

SOLUBILITY

Pearlstick™ 45-50/29 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF), Tetrahydrofurane (THF). Diluting solvents such as Toluene and Ethyl Acetate can be added. The solvents and diluents should be water-free (max. 0.1%), so as to avoid subsequent side reactions during crosslinking with isocyanate.

Pearlstick™ 45-50/29 should be dissolved in closed tanks and the use of high shear equipments is advisable. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios.

APPLICATIONS

Pearlstick™ 45-50/29 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, in the shoe industry.

Pearlstick™ 45-50/29 has a good heat resistance and improved freeze resistance, and can be used as a one-component adhesive, although the addition of a polyfunctional isocyanate improves the heat-resistance.

HEALTH AND SAFETY

A safety data sheet on Pearlstick™ 45-50/29 is available, with all safety information. When solutions are prepared, the usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, good skin protection and protective goggles.

PACKAGING

PE bags of 25 Kg. net. Bags are shipped on pallets of 750 Kg.
STORAGE
Pearlstick™ 45-50/29 must be stored in a cool (15–25°C) and environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.

For further information refer to Lubrizol Advanced Materials processing guides.