Technical Data Sheet

Pearlstick™ 48-60/19 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a very high crystallization rate and a medium-low thermoplasticity level.

SPECIFICATION

**Viscosity @ 20ºC (Brookfield RVF sp 4, 20 rpm.)***  
1700–2200 mPa.s  
MQSA 40A

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

<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>Heat resistance</td>
<td>Excellent</td>
<td>MQSA 11E</td>
</tr>
<tr>
<td>Freezing resistance</td>
<td>Very Good</td>
<td>MQSA 90</td>
</tr>
<tr>
<td>Minimum Activation Temperature</td>
<td>Approx. 60°C</td>
<td>EN-12961</td>
</tr>
</tbody>
</table>

*Solutions 15% MEK (MQSA N° 55 A)

SOLUBILITY

Pearlstick™ 48-60/19 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF), Tetrahydrofuran (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™ 48-60/19 gives transparent solutions. It they 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™ 48-60/19 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.

The addition of a polyfunctional isocyanate improves the performance of the adhesive.

HEALTH AND SAFETY

A safety data sheet on Pearlstick™ 48-60/19 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™ 48-60/19 must be stored in a cool (15–25ºC) 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.