L-5R(XQ)

GRAFTED POLYETHYLENE ADHESIVE FOR STEEL PIPE COATING

Description
The product is maleic grafted polyethylene copolymer adhesive. It is in granule form.

Applications
The product is recommended as an adhesive for standard three layer PE coating system used in Steel Pipe Coating for exploration & transportation of natural gas, oil, chemical liquids, water, etc in long distance transportation.

Lushan Solution

Lushan high density polyethylene system, for operating temperatures from -45°C to +90°C.

Specifications
The product is intended to fulfill following National and International standards, when appropriate industrial manufacturing standard procedures are applied and a continuous quality system is implemented and when used in combination with PE top coats and a compatible powder epoxy.

NFA 49-710 CAN/CSA-Z245.21 DIN 30670 ISO 21809-1

Technical Property

<table>
<thead>
<tr>
<th>Item</th>
<th>Test Standard</th>
<th>Unit</th>
<th>L-5R(XQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Visual</td>
<td>/</td>
<td>Granule</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>/</td>
<td>°C</td>
<td>-40～80</td>
</tr>
<tr>
<td>Melting Index</td>
<td>ASTM D1238</td>
<td>g/10min</td>
<td>2.5</td>
</tr>
<tr>
<td>Density</td>
<td>ASTMD792</td>
<td>g/cm³</td>
<td>0.930</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D638</td>
<td>Mpa</td>
<td>21</td>
</tr>
<tr>
<td>Elongation At Break</td>
<td>ASTM D638</td>
<td>%</td>
<td>860</td>
</tr>
</tbody>
</table>
Melting Point  ASTM D2117      °C   120
Vicat Softening Point  ASTM D1525      °C   104
Brittleness Temperature  ASTM D746      °C   -70
Peeling Strength (3 layer)  ISO21809-1      N/cm

Processing Temperature (For Recommendation)

<table>
<thead>
<tr>
<th>Processing Temperature (℃)</th>
<th>Preheating Zone</th>
<th>Middle Zone</th>
<th>Transition Zone</th>
<th>Mould Head Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-5R(XQ)</td>
<td>150～180</td>
<td>190～220</td>
<td>190～220</td>
<td>200～220</td>
</tr>
</tbody>
</table>

Note: The above mentioned processing temperature is just for the purpose of recommendation, not intended as specification. The actual conditions will depend on the type of equipment used.

Packaging & Storage

2. Stored in a dry, cool and ventilated environment; avoid direct exposure to water and strong light. Avoid bulk package and securely wrap the unused part.
3. Shelf Life: one year.

Safety

The product is not classified as a dangerous preparation. The equipment should be grounded in case of any dust explosion caused by dust and fines produced during handling and transportation. Avoid Inhalation because it can irritate respiratory tract. Good ventilation is necessary otherwise a small amount of smoke may generate during processing.

Disclaimer

It’s the consumer responsibility to read carefully in this data sheet. In order to satisfy itself as to the suitability of the products for the customer’s particular purpose, it is of great necessity to inspect and test our products before real production. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.