**Description**
XL-PEARL 51 blend is for the manufacture of dry silane masterbatches based on porous polymer carriers. XL-PEARL 51 blend is a fully stabilized crosslinking system designed for crosslinking polyethylene low- and medium-voltage copper cables using the XL-PEARL blend one-step process.

It is only available for licensees of the XL-PEARL blend technology.

**Key Features and Benefits**
- XL-PEARL 51 blend masterbatches can be used with a wide range of nonstabilized polyethylene grades for optimum cost-effectiveness.
- With an appropriate resin, insulated copper cables crosslinked with XL-PEARL 51 blend masterbatches meet the IEC aging test of 10 days at 135°C (275°F).
- A high onset temperature for grafting improves processing stability and minimizes scorch/crosslinked particles in the insulation layer.

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Viscosity, mPa s (cP), @ 25°C</td>
<td>3.8</td>
</tr>
<tr>
<td>Specific Gravity, g/cm³, @ 25°C</td>
<td>0.985</td>
</tr>
<tr>
<td>Flash Point, Tag Closed Cup, ASTM D56-79, °C</td>
<td>23</td>
</tr>
</tbody>
</table>

**Potential Applications**

*XL-PEARL is a trademark of Momentive Performance Materials Inc.*
Manufacturing of XL-PEarl 51 blend masterbatches for the crosslinking of low- and medium-voltage power cables based on nonstabilized polyethylene resins.

**Patent Status**
Standard copy to come

**Product Safety, Handling and Storage**
This product has a Self-Acceleration Decomposition Temperature (SADT) of 65°C (149°F), as tested in a 55-gallon drum. Therefore, never store or stow drums of this product at temperatures above 30°C (86°F). Exposure to these elevated temperatures may result in exothermic reactions and fire. Do not consider bulk storage without consulting the manufacturer. Prolonged storage above 30°C (86°F) may affect product performance and shorten the expected shelf life of this product, which is approximately one year.

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**Processing Recommendations**

**Performance**
Moisture-cured cables produced with XL-PEarl 51 blend utilizing the XL-PEarl blend process can meet the IEC 502 cable specification.

XL-PEarl 51 blend masterbatches can only be used with nonstabilized polyethylene resins.

Recommended types are:

| LDPE resins: | Melt index (190°C/2.16 kg): | 0.2 to 0.5 g/10 min. |
| Density: | 0.915 to 0.925 g/cm³ |
| LLDPE resins: | Melt index (190°C/2.16 kg): | 2 to 6 g/10 min. |
| Density: | 0.915 to 0.925 g/cm³ |

**Limitations**
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Contact Information
For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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