

## **XL-PEARL™ 51 MB HDPE40**

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#### **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**

|  |              |
|--|--------------|
| Appearance                                   | Clear liquid |
| Color  | Light yellow |
| Viscosity, mPa s (cP), @ 25°C                | 3.8          |
| Specific Gravity, g/cm <sup>3</sup> , @ 25°C | 0.985        |
| Flash Point, Tag Closed Cup, ASTM D56-79, °C | 23           |

#### **Potential Applications**

Manufacturing of XL-PEarl 51 blend masterbatches for the crosslinking of low- and medium-voltage power cables based on nonstabilized polyethylene resins.

### Patent Status

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### 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:

|                      |                             |                                  |
|----------------------|-----------------------------|----------------------------------|
| <b>LDPE resins:</b>  | Melt index (190°C/2.16 kg): | 0.2 to 0.5 g/10 min.             |
|                      | Density:                    | 0.915 to 0.925 g/cm <sup>3</sup> |
| <b>LLDPE resins:</b> | Melt index (190°C/2.16 kg): | 2 to 6 g/10 min.                 |
|                      | Density:                    | 0.915 to 0.925 g/cm <sup>3</sup> |

### Limitations

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