

XL-PEARL™ 31

XL-PEARL© 31

Description

XL-PEARL 31 blend is for the manufacture of dry silane masterbatches based on porous polymer carriers. XL-PEARL 31 blend is a crosslinking system developed for the manufacture of crosslinked LLDPE low- and medium-voltage 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 31 blend can be used with a wide range of stabilized LLDPE, MDPE and HDPE poly ethylene grades for optimum costeffectiveness. This also applies for nonstabilized resin used in association with an antioxidant masterbatch
- A high onset temperature of the silane crosslinking agent improves process stability and minimizes pregrafted/crosslinked particles in the insulation layer

Typical Physical Properties

| | |
|--|--------------|
| Appearance | Clear liquid |
| Color | Light yellow |
| Viscosity, mPa s (cP), @ 23°C | 2.2 |
| Specific Gravity, g/cm ³ , @ 23°C | 0.962 |
| Flash Point, Tag Closed Cup, ASTM D56-79, °C | 23 |

Potential Applications

Manufacturing of XL-PEARL 31 blend masterbatches for the crosslinking of low- and medium-voltage power cables based on stabilized polyethylene resins.

Patent Status

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Product Safety, Handling and Storage

The Self-Accelerating Decomposition Temperature (SADT) of XL-PEARL 31 blend in 217L drums is predicted to be above 65°C (149°F). However, it is recommended that drums of XL-PEARL 31 blend not be stored or shipped at temperatures above 30°C (86°F), since some degradation of product may occur.

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Processing Recommendations

Recommended resins

XL-PEARL 31 blend can be used either with nonstabilized polyethylene resins and an antioxidant masterbatch or with stabilized cable grade resins. Recommended types are:

- Exxon Escorene LLN 1004YB, in conjunction with a stabilizer masterbatch
- BP 3000 series
- Aspel 1200 - 1600 series

Other polyethylene resins should have the following properties:

| | | |
|---------------|-----------------------------|----------------------------------|
| LDPE resins: | Melt index (190°C/2.16 kg): | 0.2 to 0.5 g/10 min. |
| | Density: | 0.915 to 0.935 g/cm ³ |
| LLDPE resins: | Melt index (190°C/2.16 kg): | 0.5 to 6 g/10 min. |
| | Density: | 0.900 to 0.935 g/cm ³ |

Limitations

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Contact Information

Email

commercial.services@momentive.com

Telephone

Americas

Latin America

**EMEAI- Europe, Middle
East, Africa & India**

ASIA PACIFIC

| | | | |
|-------------------------|------------------|--|------------------|
| +1 800 295 2392 | Brazil | Europe | China |
| Toll free* | +55 11 4534 9650 | +390510924300 | 800 820 0202 |
| +704 805 6946 | Direct Number | Direct number | Toll free |
| Direct Number | | | +86 21 3860 4892 |
| | | | Direct number |
| *All American countries | Mexico | India, Middle East & Africa | Japan |
| | +52 55 2169 7670 | + 91 44 71212207 | +81 3 5544 3111 |
| | Direct Number | Direct number* | Direct number |
| | | *All Middle Eastern countries, Africa, India, | Korea |
| | | | +82 2 6201 4600 |

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