

XL-PEARL™ 51 MB HDPE40

XL-PEARL® 51 MB HDPE40

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 ³ , @ 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

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.

Standard copy to come

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/cm ³
LLDPE resins:	Melt index (190°C/2.16 kg):	2 to 6 g/10 min.
	Density:	0.915 to 0.925 g/cm ³

Limitations

Standard copy to come

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

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

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE.

EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*XL-PEarl™是 Momentive Performance Materials Inc. 的商标

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.