Borlink™ LC8205R

Crosslinked Polyethylene

Borealis AG

Message:

Borlink LC8205R is a crosslinkable natural polyethylene compound based on Supercure technology, specially designed for insulation of energy cables. Borlink LC8205R is intended for insulation of XLPE power cables with rated voltages up to 72 kV. It is designed for cable constructions with bonded insulation shields.
Borlink LC8205R meets the applicable requirements as below when processed using sound extrusion practices and testing procedures
Cenelec HD 620 S1, Part 1, table 2A, DIX 3-14
DIN VDE 0276-620
GOSTR 55025-2012
IEC 60502-2
IEC 60840
Borlink LC8205R is a ready-to-use natural co-polymer compound. It provides superior electrical performance (polymer WTR XLPE) meeting the most stringent wet ageing requirements. It offers excellent scorch resistance, long production runs and high line speed potential. Borlink LC8205R cleanliness level is assured through the Borealis quality control system.

General Information	
Features	Pure/High Purity Workability, good Crosslinkable Good electrical performance
Uses	Cable sheath Insulating material Insulation shield Moisture-resistant insulating material Medium voltage insulation
Agency Ratings	DIN VDE 0276-620 EC 1907/2006 (REACH) GOSTR 55025-2012 HD 620 S1, Part 1, table 2A, DIX 3 to 14 IEC 60502-2 IEC 60840 (1st edition)
Appearance	Natural color
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Density (Base Resin)	0.924	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133
Moisture Content		ppm	Karl Fisher

Change in Tensile Properties - After Ageing 168 h (135°C) [1]		%	IEC 60811-401
Thermoset			IEC 60811-507
Elongation under load, 0.20 MPa : 200°C	75	%	IEC 60811-507
Permanent deformation, 0.20 MPa : 200°C	5.0	%	IEC 60811-507
Methanol Wash		ppm	Internal method
Monsanto ODR	37.0 - 47.0	dNm	ASTM D2084
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (Yield)	> 17.0	MPa	ISO 527-2/250
Tensile Strain [3] (Break)	> 450	%	ISO 527-2/250
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	> 22	kV/mm	IEC 60243-1
Dielectric Constant (50 Hz)	2.30		IEC 60250
Dissipation Factor (50 Hz)	5.0E-4		IEC 60250
Additional Information	**Nominal Value**	**Unit**	**Test Method**
The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	125 - 135	°C	
NOTE			
1.	Crosslinked specimen		
2.	Crosslinked specimen		
3.	Crosslinked specimen		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT