

# Borlink™ LC8205R

交联聚乙烯

Borealis AG

## Technical Data

### 产品说明

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.

### 总体

特性	<ul style="list-style-type: none"> <li>• 纯净/高纯度</li> <li>• 可加工性，良好</li> </ul>	<ul style="list-style-type: none"> <li>• 可交联</li> <li>• 良好的电气性能</li> </ul>	
用途	<ul style="list-style-type: none"> <li>• 电缆护套</li> <li>• 绝缘材料</li> </ul>	<ul style="list-style-type: none"> <li>• 绝缘屏蔽</li> <li>• 耐潮湿级绝缘材料</li> </ul>	<ul style="list-style-type: none"> <li>• 中压绝缘</li> </ul>
机构评级	<ul style="list-style-type: none"> <li>• DIN VDE 0276-620</li> <li>• EC 1907/2006 (REACH)</li> </ul>	<ul style="list-style-type: none"> <li>• GOSTR 55025-2012</li> <li>• HD 620 S1, Part 1, table 2A, DIX 3 to 14</li> </ul>	<ul style="list-style-type: none"> <li>• IEC 60502-2</li> <li>• IEC 60840 (1st edition)</li> </ul>
外观	<ul style="list-style-type: none"> <li>• 自然色</li> </ul>		
加工方法	<ul style="list-style-type: none"> <li>• 挤出</li> </ul>		

物理性能	额定值 (英制)	额定值 (公制)	测试方法
密度 (基体树脂)	0.924 g/cm <sup>3</sup>	0.924 g/cm <sup>3</sup>	ISO 1183
熔流率 (熔体流动速率) (190°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ISO 1133
含水量	< 200 ppm	< 200 ppm	Karl Fisher
机械性能	额定值 (英制)	额定值 (公制)	测试方法
拉伸应力 <sup>3</sup> (屈服)	> 2470 psi	> 17.0 MPa	ISO 527-2/250
拉伸应变 <sup>3</sup> (断裂)	> 450 %	> 450 %	ISO 527-2/250
热性能	额定值 (英制)	额定值 (公制)	测试方法
热固性			IEC 60811-507
Elongation under load, 0.20 MPa : 392°F (200°C)	75 %	75 %	
Permanent deformation, 0.20 MPa : 392°F (200°C)	5.0 %	5.0 %	
老化	额定值 (英制)	额定值 (公制)	测试方法
Change in Tensile Properties - After Ageing 168 h <sup>3</sup> (275°F (135°C))	< 20 %	< 20 %	IEC 60811-401
电气性能	额定值 (英制)	额定值 (公制)	测试方法
体积电阻率	> 1.0E+15 ohms·cm	> 1.0E+15 ohms·cm	IEC 60093
介电强度	> 560 V/mil	> 22 kV/mm	IEC 60243-1
介电常数 (50 Hz)	2.30	2.30	IEC 60250

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电气性能	额定值 (英制)	额定值 (公制)	测试方法
耗散因数 (50 Hz)	5.0E-4	5.0E-4	IEC 60250

补充信息	额定值 (英制)	额定值 (公制)	测试方法
Methanol Wash	< 500 ppm	< 500 ppm	内部方法

Monsanto ODR 37.0 到 47.0 dNm 37.0 到 47.0 dNm ASTM D2084  
 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.

挤出	额定值 (英制)	额定值 (公制)
熔体温度	257 到 275 °F	125 到 135 °C