INEOS Wire & Cable BPD3669

Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

LLDPE with enhanced properties for crosslinked low voltage cable insulation
Applications
BPD3669 is a LLDPE copolymer containing hexene-1 as comonomer which, when compounded with suitable additives, is designed for silane crosslinked LV insulation. BPD3669 can be used in a silane one step cross-linking process (Monosil® for example) and in a silane two step crosslinking process (Sioplas® process).
BPD3669 has been developed specifically to provide enhanced crosslinking and extrusion performances, thanks to proprietary process and catalyst and fit for purpose product design.
LLDPE with enhanced properties for high performance cable jacketing
Applications
BPD3669 is a LLDPE which, when compounded with suitable additives, is designed for jacketing of cables, especially power cables.
BPD3669 combines an enhanced environmental stress cracking resistance to excellent mechanical properties.

General Information			
Features	Copolymer Crosslinkable Hexene Comonomer High ESCR (Stress Crack Resist.) Low Density		
Uses	Cable Jacketing Low Voltage Insulation Wire & Cable Applications		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3 ISO 1872 PE KGN 18D045		
Forms	Pellets		
Processing Method	Wire & Cable Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.926	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.3	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal, F0)	> 1000	hr	IEC 60811-406
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 1 sec)	56		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
Break	30.0	MPa	ISO 527-2
Break, 23°C [1]	28.0	MPa	ISO 527-2/50

Tensile Strain			
Break	800	%	ISO 527-2
Break, 23°C [2]	500	%	ISO 527-2/50
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-76.0	°C	ISO 974
Hot Set - 15 min, 0.2 MPa [3] (200°C)	60	%	IEC 60811-507
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant (1 MHz)	2.30		ASTM D1531
Dissipation Factor (1 MHz)	7.0E-5		ASTM D1531
NOTE			
1.	Crosslinked		
2.	Crosslinked		
3.	Crosslinked		

Recommended distributors for this material

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