INEOS Wire & Cable BPD3642

Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

LLDPE with enhanced properties for crosslinked low voltage cable insulation
Applications
BPD3642 is a LLDPE copolymer containing hexene-1 as comonomer which, when compounded with suitable additives, is designed for silane crosslinked LV insulation. BPD3642 can be used in a silane one step crosslinking process (Monosil® for example) and in a silane two step crosslinking process (Sioplas® process).
BPD3642 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
BPD3642 is a LLDPE which, when compounded with suitable additives, is designed for jacketing of cables, especially power cables.
BPD3642 combines an enhanced environmental stress cracking resistance to excellent mechanical properties.

General Information			
Features	Copolymer Crosslinkable Hexene Comonomer Low Density		
Uses	Cable Jacketing Low Voltage Insulation Power Cable Jacketing Wire & Cable Applications		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3 ISO 1872 PE KGN 18D045		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.920	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	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)	53		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			

Break	28.0	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 Compound		
2.	Crosslinked Compound		
3.	Crosslinked Compound		

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