INEOS Wire & Cable BPD2142

Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

BPD 2142 is an unstabilised low density polyethylene.
This material, when compounded with suitable additives, is designed for use in silane crosslinking processes. Its melt flow rate allows it to be processed with the two main silane technologies: Monosil (one-step process) and Sioplas (two-step process).
It has been developed for insulation of power cables up to 5 kV.

General Information			
Features	Crosslinkable		
Uses	Low voltage insulation Wire and cable applications		
Agency Ratings	ASTM D 1248, II, Class A, Cat. 4 IEC 60502-1 IEC 60502-2 ISO 1872 PE KGN 27D012		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.930	g/cm³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	17.0	MPa	IEC 60811-1-1
Tensile Strain (Break)	350	%	IEC 60811-1-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Elongation [1] (200°C)	60	%	IEC 60811-2-1

Additional Information
BPD 2142 when grafted in the laboratory with 1.5% of a suitable silane/peroxide mixture and with subsequent addition of a tin condensation catalyst, typically gives these results on a 1.5mm thick tape after curing overnight in water at 80°C.

NOTE	
1.	15 min, 20 N/cm²

Recommended distributors for this material

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