BPD 2000

Product Technical Information

BPD 2000 is an unstabilised low density thermoplastic polyethylene. It is designed for use in medium voltage power cable insulation using the direct peroxide injection (DPI) process.

Specification

BPD 2000 meets the following material specification:

- ISO 1872/1-PE, KHN, 23-D022
- ASTM D-1248 AI 3, Grade E5

Regulations and approvals

Crosslinked cables produced with BPD 2000 insulation meet the following industry cable specifications:

- IEC 502
- AEIC : CS5
- EdF: HN 33-S-23

Packaging

BPD 2000 is sold in pellet form and is available in the following packaging : 1.1 ton octabins and bulktankers.

Processing Data

BPD 2000 will be extruded in conjunction with standard peroxide injection practice. An antioxidant has to be introduced by the user in order to fulfill the required ageing tests. The required extrusion melt temperature is approximately 135°C or 145°C depending on peroxide nature.

Properties		Test Method	Value [1]	Units
Physical				
Melt flow rate		ISO 1133 Cond. D	2.0	g/10min
Conventional density conditioning ISO 1872/1		ISO 1183 Method D	923	kg/m3
Tensile strength	@ break	IEC 811-1-1	18	MPa
Elongation	@ break	IEC 811-1-1	> 500	%

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Electrical

Dielectric constant	@ 50 Hz	ASTM D 150	2.30	-
Dissipation factor	@ 50 Hz	ASTM D 150	300	µrad
DC volume resistivity	@ 23°C	ASTM D 257	> 10^{15}	Ω cm
Dielectric strength, short time		ASTM D 149	> 22	kV/mm

(1) Tests on moulded crosslinked plaques prepared according to INEOS Polyolefins method. Data should not be used for specification work.

Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@innovene.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained from the website http//techservice.innovene.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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