

BPD8063

Product Technical Information

BPD8063 is a low density polyethylene compound having low dielectric loss properties meeting the needs of many coaxial and control cable applications. It contains a non staining antioxidant.

Specification

BPD8063 meets the following material specification:

- ISO 1872/1-PE, KN, 23-D022
- ASTM D 1248: Type I, Class A, Category 3, Grade E4

Regulations and approvals

Cables insulated with BPD8063 meet many national and international specifications for radio frequency (R.F.) cables. Information concerning suitability to a given specification is available from INEOS Polyolefins.

Packaging

BPD8063 is sold in pellet form and is available in the following packages: 25 kg bags, 1.1 ton holbins or bulk tankers.

Processing Data

The good processing characteristics of BPD8063 allow a wide latitude of both equipment and process conditions. Normally the extruder barrel temperatures should be set to give a resulting melt temperature in the range of 200-250 °C depending on the type of application.

Properties	Test Method	Value ⁽¹⁾	Units
Physical			
Melt flow rate	ISO 1133 Cond. D	1.5	g/10min
Conventional density	ISO 1183 Method D	923	kg/m ³
conditioning ISO 1872/1			
Low temperature brittleness	ISO 974	-75	°C
Oxidative induction time	SPT 005 ⁽³⁾	20	min
@ 200°C/Aluminium pan			
Tensile strength @ break	IEC 811-1-1 ⁽²⁾	12	MPa
Elongation @ break	IEC 811-1-1 ⁽²⁾	500	%
ESCR	IEC 811-4-1	>48	h
100% "Igepal" F ₂₀			

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Properties	Test Method	Value ⁽¹⁾	Units
Electrical			
Dielectric constant @ 1 MHz	ASTM D 1531	2.28	-
Dielectric loss angle @ 1 MHz	ASTM D 1531	50	μrad
Dielectric strength, short time	ASTM D 149	22	kV/mm
DC Volume Resistivity @ 23°C	ASTM D 257	>10 ¹⁴	Ω m

- (1) Data should not be used for specification work
- (2) Measured on plaques prepared according to SPT 002
- (3) INEOS O&P Europe test method

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 psnobreg@ineos.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 www.ineospolyolefins.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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