



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