INEOS Wire & Cable BPD3801

Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

BPD3801 is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. BPD3801 represents an interesting balance of properties for Wire & Cable applications.
When compounded with suitable additives, is designed for use in silane crosslinking processes (Monosil ®). It has been developed for LV insulation or jacketing applications.
Benefits and Features
Suitable Melt Index and Density for Wire & Cable applications
High X-link efficiency
Higher output and productivity
High flexibility
Very good Mechanical Properties and Stress Cracking Resistance
Very good smoothness

General Information			
Features	High ESCR (Stress Cracking Resistance) hexene comonomer Crosslinkable Good flexibility		
Uses	Low voltage insulation Cable sheath Wire and cable applications Insulating material		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.916	g/cm³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	20.0	MPa	IEC 811-1-1
Tensile Strain (Break)	> 300	%	IEC 811-1-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Thermoset	60	%	IEC 60811-2-1
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+17	ohms·cm	ASTM D257
Dielectric Constant (50 Hz)	2.30		ASTM D150
Dissipation Factor (50 Hz)	< 4.0E-3		ASTM D150
Additional Information			

BPD3801 when grafted in the laboratory with 1.1 % of a suitable silane/peroxide mixture and 0.05 % of a tin condensation catalyst, typically gives the following results on a 1.5 mm^2 cable after curing 4h in water at 80 °C.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150	°C
Cylinder Zone 2 Temp.	160	°C
Cylinder Zone 3 Temp.	170	°C
Cylinder Zone 4 Temp.	180	°C
Cylinder Zone 5 Temp.	190	°C
Melt Temperature	225 - 235	°C
Die Temperature	270	°C

Extrusion instructions

Cylinder zone 6 temp: 200°CCylinder zone 7 temp: 210°CHead Temperatures: 220-220-230°C

Recommended distributors for this material

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