INEOS Wire & Cable BP28D780

Low Density Polyethylene INEOS Olefins & Polymers Europe

Message:

BP28D780 is a low density polyethylene compound suitable for the thin walled insulation of telephone wires. BP28D780 combines good processability at very high extrusion speeds with excellent mechanical properties, a high resistance to copper catalysed thermal oxidation and excellent resistance to petroleum jelly absorption. The combination of these properties in BP28D780 makes it suitable for use as telephone singles insulation in air spaced and filled cables and in environments subject to high temperatures. BP 28 D780 contains a metal deactivator.

General Information					
Additive	Metal deactivator				
Features	Workability, good				
Uses	Wire and cable applications				
	Communication wire insulation material				
Agency Ratings	ASTM D 1248, II, Class A, Cat. 5, Grade D5				
	ASTM D 1248, II, Class A, Cat. 5, Grade E4				
	BS 3573				
	BS 6234 Type 03				
	BT M 237B				
	CENELEC HD 624.3 S1, L/MD Solid				
	CNET CM 24				
	IEC 60708				
	ISO 1872 PE KHKN 27D003				
	VDE 0207, Part 103, L/MD Solid				
	VDE 0207, Part 2, Type 2Y12				
RoHS Compliance	Contact manufacturer				
Forms	Particle				
Physical	Nominal Value	Unit	Test Method		
Density	0.929	g/cm³	ISO 1183/D		
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ISO 1133		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D, 1 sec)	56		ISO 868		
	Nominal Value	Unit	Test Method		
Mechanical					
Mechanical Tensile Stress			IEC 60811-1-1		
	15.0	MPa	IEC 60811-1-1 IEC 60811-1-1		
Tensile Stress		MPa MPa			
Tensile Stress Yield	15.0		IEC 60811-1-1		

Vicat Softening Temperature	106	°C	ISO 306/A
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.28		ASTM D1531
Dissipation Factor (1 MHz)	1.0E-4		ASTM D1531
A 1 122 11 6 12			

Additional Information

Properties of Insulation with 0.2 mm radial thickness on 0.5 mm diameter copper conductors:-Tensile Strength at Break, IEC 811-1-1: 20 MPa-Elongation, IEC 811-1-1: 600%-Ageing in Air, Retention of Tensile Properties, IEC 811-1-2, 10 days, 100°C: 90%-Petroleum Jelly Absorption Weight Gain, IEC 811-4-2, Preconditioned in Petroleum Jelly, 10 days, 70°C: 11%-Retention of Tensile Properties, IEC 811-1-1, Preconditioned in Petroleum Jelly, 10 days, 70°C: 90%-Resistance to Ageing in Air at 105°C, BT M237, IEC 811-4-2, Preconditioned in Petroleum Jelly, 14 days, 60°C: 1500 h

Extrusion	Nominal Value	Unit
Melt Temperature	210 - 280	°C
Extrusion instructions		

Screw L/D ratio: >20:1Compression ratio: >3

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