

InnoPlus HD6376EB

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD6376EB is black compounded high density polyethylene extrusion grade for cable jacket like fiber optic. This grade provide excellent UV and weathering resistance, abrasion resistance and low shrink back.

Material Specification : Black compounded InnoPlus HD6376EB meet the following requirement of

ASTM D1248 : Type III, Class C, Category 5, Grade J5

BS 6234 : Type H03C, TS2

Typical Application: Cable jackets

General Information			
Additive	Carbon Black (3%) 2 UV Stabilizer		
Features	Food Contact Acceptable Good Abrasion Resistance Good UV Resistance Good Weather Resistance Low Shrinkage		
Uses	Cable Jacketing		
Agency Ratings	ASTM D 1248, III, Class C, Cat. 5 Grade J5 BS 6234 Type H03 C, TS2 FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ASTM D1505
Base Resin	0.952	g/cm ³	
Black	0.962	g/cm ³	
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.060	g/10 min	
190°C/5.0 kg	0.30	g/10 min	
Environmental Stress-Cracking Resistance (25% Igepal, F50)	> 2000	hr	ASTM D1693B
Carbon Black Content	2.5	%	ASTM D4218
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	22.6	MPa	
Break	32.4	MPa	
Tensile Elongation (Break)	750	%	ASTM D638
Apparent Bending Modulus	785	MPa	ASTM D747
Flexural Modulus	981	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹	390	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ASTM D1525 ²
Melting Temperature	129	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ³	1.0E+16	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	2.50		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
Additional Information	Nominal Value		Test Method
Track Resistance	Pass		IEEE 1222
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	180 to 220	°C	
Cylinder Zone 2 Temp.	180 to 220	°C	
Cylinder Zone 3 Temp.	180 to 220	°C	
Cylinder Zone 4 Temp.	180 to 220	°C	
Cylinder Zone 5 Temp.	180 to 220	°C	
NOTE			
1.	Non break		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	DC 500V		

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