

Hy-Vin® XN78036

Flexible Polyvinyl Chloride

INEOS Compounds

Message:

Opaque flexible PVC extrusion compound
2002/95/EC (RoHS) compliant
Colour: Natural and colours
Application: For flame retardant, high temperature insulation (90°C) and sheathing (85°C) cables
Specification: Cables to BS 7655 T13, Type 5 & U.L. 105°C applications

General Information			
Features	Flame Retardant		
	High Heat Resistance		
Uses	Cable Jacketing		
	Insulation		
	Wire & Cable Applications		
Agency Ratings	BS 7655 T13 Type 5		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
	Natural Color		
	Opaque		
Forms	Granules		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.44	g/cm ³	BS 2782
Water Absorption (Equilibrium, 23°C, 50% RH)	0.13	%	BS 2782 430A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec, 23°C)	91		BS 2782
BS Softness	22		BS 2782
Cold Bend	< -35	°C	BS 2782
Cold Flexibility	-7	°C	BS 2782
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ² (Yield)	20.1	MPa	ISO 811-1-1
Tensile Strain ³ (Break)	300	%	ISO 811-1-1
Thermal	Nominal Value	Unit	Test Method
UL Temperature Rating	105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.1E+14	ohms · cm	BS 2782

Electric Strength (1.27 mm)	15	kV/mm	BS 2782
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	29	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	155	°C	
Cylinder Zone 2 Temp.	155	°C	
Cylinder Zone 3 Temp.	160	°C	
Cylinder Zone 4 Temp.	160	°C	
Die Temperature	165	°C	
NOTE			
1.	Natural, varies with colour		
2.	500 mm/min		
3.	500 mm/min		

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