

**Product Information:**

SX-8380-HN is a high molecular weight, high density polyethylene insulation compound especially designed for high-speed wire insulating extrusion process. It provides excellent processability, environmental and thermal stress cracking resistance. It meets major international aging test specification for both solid and foam/skin insulation.

SX-8380-HN can be used for the full range of telephone cable insulation including air-core, jelly-filled and LAN cable .

STM D1248 Type III, Class A, Category 4, Grade E8, E9

IEC 60708, EN 50290-2-23

DIN VDE 0818, BS 6234 : Type H03

DIN VDE 0207, 2Y11

ISO 1872-PE, KGHN, 45-D006

EN 50407

**Product Data:**

Property	Test Method	Unit	Value
<b>Physical Properties</b>			
Melt Flow Rate (190°C-5 kg)	ASTM D1238	g/10 min	1,4
Density (23°C)	ASTM D792	g/cm <sup>3</sup>	0,948
Hardness	ASTM D2240 (15sec)	Shore D	61
Melting Temperature	DSC	°C	125
<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638/IEC 60811	N/mm <sup>2</sup>	33
Elongation at Break	ASTM D638/IEC 60811	%	1000
ESCR (Fo, 50°C, 10% Igepal)	ASTM D1693	h	> 5000
O.I.T at 200°C	ASTM D3895	min	> 200
Vicat Softening Temperature	ISO 306	°C	120
Hot pressure test at 110 °c	IEC 60811	%	<50
Water absorption	ASTM D570	%	≤0.01
<b>Electrical Properties</b>			
Dielectric Constant @ 1 MHz	ASTM D150	-	<2.3
Dissipation Factor @ 1 MHz	ASTM D150	-	<0.0006
Dissipation Factor (1 MHz)	ASTM D257	ohm cm	>10 <sup>16</sup>

**Packaging:**

SX-8380-HN It is packaged as 1000 kg in octabin.

**Processing:**

Extrusion Temperatures: 180°C – 190°C – 200°C – 210°C – 220°C

**Storage&Handling:**

SX-8380-HN should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

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