

SX-8380-HN**HDPE Natural Compound****Product Information:**

SX-8380-HN is a UV Natural-Colourable high density polyethylene compound suitable for insulation or jacketing. It contains UV-stabilizer in order to ensure excellent UV protection. Antioxidant is added to obtain excellent long term properties.

Outstanding UV resistance, Excellent environmental stress crack resistance, Low water permeability, Oil resistance I & II, according to UL 1072.

STM D1248 Type III, Class A, Category 4, Grade E8, E9
DIN VDE 0818, BS 6234 : Type H03
ISO 1872-PE, KGHN, 45-D006

IEC 60708, EN 50290-2-23
DIN VDE 0207, 2Y11
EN 50407

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-5 kg)	ASTM D1238	g/10 min	1,4
Density (23°C)	ASTM D792	g/cm ³	0,948
Hardness	ASTM D2240 (15sec)	Shore D	61
Melting Temperature	DSC	°C	125
Mechanical Properties			
Tensile Strength	ASTM D638/IEC 60811	N/mm ²	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	> 100
Vicat Softening Temperature	ISO 306	°C	120
Hot pressure test at 110 °c	IEC 60811	%	<50
Water absorption	ASTM D570	%	≤0.01
Electrical Properties			
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 ¹⁶

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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