

Product Information:

SX-FR481 is a black UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyethylene basis. The outer sheath material of power cables, high voltage energy cables, communication cables and optical cables.

The properties of this compound comply with the requirements of,

ISO 1872-PE; EN 50290-2-27; EN 50363-8 TM7
VDE 0207 Teil 24 HM4; BS 7655 LTS2
ASTM D 1248 Type I, Class C, Category 4

IEC 60502, Part 1, Type ST3, ST8
IEC 60840 ST12; HD 632 S2-S3 DMZ2
IEC 60840 Type ST7, IEC 60794, EN 187105

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	g/10 min	0,4
Density (23°C)	ASTM D-792	g/cm ³	1,28
Hardness	ISO 868	Shore D	51
Carbon Black Dispersion	ISO 18553	-	2,6
Mechanical Properties			
Tensile Strength	ISO 527	MPa	14,5
Elongation at Break	ISO 527	%	450
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	±25
Δ Elongation		%	±25
Tear Strength	ASTM D 1938	N/mm	14
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-40 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-40 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Environmental Stress Crack Resistance (50°C)	IEC 60811-406	h	≥ 500
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
Water Immersion	BS 6469-9.1		
Δ Strength		%	-30
Δ Elongation		%	-30
LOI	ISO 4589	%	28
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹³
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 90°C–110°C–120°C–130°C–140°C

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

SX-FR481 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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