

SX-2M1**Halogen Free Flame Retardant Cable Compounds****Product Information:**

SX-2M1 is thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of EN 50363-0 type M1, EN 50363-7 type TI6, EN 50363-8 type TM7, EN 50290-2-27, VDE 0207 Part 24 type HM2, VDE 0207 Part 23 type HJ2, VDE 0250 Part 215 type HM5, BS 7655 type LTS1 & LTS3, IEC 60092-359 type SHF1, IEC 60502 ST8.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238-10	gr/10 min	5±1
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,46±0,01
Hardness	ISO 868	Shore D	47
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Breake	ISO 527	%	175
Heat Ageing (100 °C, 168 h)	DIN VDE 027		
Δ Strength		%	-30 ^{a)}
Δ Elongation		%	±40
Heat Ageing (100 °C, 240 h)	IEC 60811		
Δ Strength		%	±10
Δ Elongation		%	-24
Tear Strength	ASTM D 1938	N/mm	8
Chemical Properties			
Halogen Content	EN 50267-2-1	%	<0,5 Max.
pH	EN 50267-2-2/IEC 60754-2	-	>4.3
Conductivity	EN 50267-2-2/IEC 60754-2	μS/mm	<10
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	BS 7655-6.1	-	No Cracks
Cold Elongation (-15 °C±2 °C)	BS 7655-6.1	-	30 Min.
Cold Impact (-15 °C±2 °C)	BS 7655-6.1	-	Pass
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (50 °C, 72 h)	IEC 60811-2-1		
Δ Strength		%	15
Δ Elongation		%	7
Oil IRM 902 oil (70 °C, 6 h)	IEC 60811-2-1		
Δ Strength		%	20
Δ Elongation		%	10

a) Any upper limit is determined

Processing:

Extrusion Temperatures: 115 °C – 125 °C – 130 °C – 135°C – 145°C – 155 °C

Packaging:

It is packaged as 1250 kg in octabin.

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