

**Product Information:**

SX-M20 is thermoplastic halogen free flame retardant compound with low smoke opacity and low emission of corrosive or toxic fumes and compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

SX-M20 has been designed to allow its use in cable sheathing types RZ1 and DZ1 according to UNE 21123 (Parts 4 and 5), as well as insulations according to UNE 211002.

Range material operating temperatures : +90°C.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T17  
IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

EN 50290-2-27, IEC 60092-359 type SHF1

**Product Data:**

Property	Test Method	Unit	Value
<b>Physical Properties</b>			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	g/10 min	6,5
Density (23°C)	ASTM D-792	g/cm <sup>3</sup>	1,52
Hardness	ISO 868	Shore D	55
<b>Mechanical Properties</b>			
Tensile Strength	ISO 527	MPa	13
Elongation at Break	ISO 527	%	185
Heat Ageing (100 °C, 240 h)	IEC 60811		
Δ Strength		%	-2
Δ Elongation		%	-12
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
<b>Chemical Properties</b>			
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 <sup>2</sup>	<5.0
LOI	ISO 4589	%	39
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 <sup>15</sup>
<b>Other Properties</b>			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

**Processing:**

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C–145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C–155°C–165 °C (Processing without Die Plate and Filter)

**Packaging:** It is packaged as 1250 kg in octabin.

**Storage&Handling:**

SX-M20 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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