

**Product Information:**

SX-M60S is black 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

TS HD 604 S1 type M1, EN 50363-7 type TI6

VDE 0250 Part 215 type HM5

EN 50363-8 type TM7, EN 50290-2-27

BS 7655 type LTS1 & LTS3, IEC 60092-360 type SHF1

VDE 0207 Part 24 type HM2, VDE 0207 Part 23 type HJ2

IEC 60502 ST8

**Product Data:**

Property	Test Method	Unit	Value
<b>Physical Properties</b>			
Color	-	-	RAL 9005
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	43±5
Specific Weight (23°C)	ASTM D-792	gr/cm <sup>3</sup>	1,39±0,02
Hardness	ISO 868	Shore D	44
<b>Mechanical Properties</b>			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	600
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	10
Hot Pressure Test at 80 °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	%	35
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: 90 °C–95 °C–100 °C –110°C –120°C–125 °C (Processing with Die Plate 40 Mesh Filter)

**Packaging:**

It is packaged as 1000 kg in octabin.

**Storage&Handling:**

SX-M60S 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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