

**SX-FLEX040****Halogen Free Flame Retardant Cable Compounds****Product Information:**

SX-FLEX040 is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables. The operating temperature for SX-FLEX040 is 90 °C.

The properties of this compound comply with the requirements of

TS HD 604 S1 type HM4

EN 50363-8 type TM7

EN 50363-7 type TI6

VDE 0207 Part 24 type HM2

**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	7
Density (23°C)	ASTM D-792	g/cm <sup>3</sup>	1,52
Hardness	ISO 868	Shore D	53
<b>Mechanical Properties</b>			
Tensile Strength	ISO 527	MPa	12,5
Elongation at Break	ISO 527	%	185
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5,5
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	%	41
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: 110 °C–120 °C–125 °C –130°C –135°C–135°C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 115 °C–120 °C–130 °C –135°C –140°C–145°C (Processing without Die Plate and Filter)

**Packaging:**

It is packaged as 1250 kg in octabin.

**Storage&Handling:**

SX-FLEX040 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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