

Product Information:

SX-M55 is a polyolefinic based, abrasion resistant and good stress crack resistant thermoplastic, flame retardant and halogen free compound. It can be used in the production of power, signal and control cables. Operating temperature for SX-M55 is 90°C.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; IEC 60502 ST8

EN 50290-2-27

VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1-LTS2-LTS3-LTS4

EN 60229-4.1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	g/10 min	85±5
Density (23°C)	ASTM D-792	g/cm ³	1,28±0,01
Hardness (1 sn)	ISO 868	Shore D	41,5
Hardness (15 sn)	ISO 868	Shore D	37,5
Mechanical Properties			
Tensile Strength	ISO 527	MPa	13
Elongation at Break	ISO 527	%	650
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	12,5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Abrasion Resistant	EN 60229-4.1	-	Pass
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
Chemical Properties			
Halogen Content	EN 60754-1	%	0
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	34
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 (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 90 °C–100 °C–110 °C –120°C –130°C–135 °C (Processing with Die Plate 40 Mesh Filter)

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

SX-M55 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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