

SX-4DUV

Halogen Free Flame Retardant Cable Compounds

Product Information:

SX-4DUV is a UV thermoplastic, halogen free, flame retardant, low smoke emission and ozone resistant compound for cable insulation and coating. It can be used in the production of power, signal and control cables.

SX-4DUV is a halogen-free, flame-retardant, charcoal-forming compound that improves drip behavior and crust formation as well as flame-retardant properties.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0207 Part 24 type HM2

VDE 0250 Part 215 type HM5

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	g/10 min	5
Density (23°C)	ASTM D-792	g/cm ³	1,57
Hardness	ISO 868	Shore D	52
Mechanical Properties			
Tensile Strength	ISO 527	MPa	12
Elongation at Break	ISO 527	%	160
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4,5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±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	%	<0,5 Max.
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	%	44
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: 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-4DUV 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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