

KARINTOX 70/2

Polyvinyl Chloride
Karina Ind. e Com. de Plásticos Ltda

Message:
HALOGEN FREE, FIRE RETARDANT, LOW SMOKE AND FUME POLYOLEFINIC COMPOUND RECOMMENDED FOR INSULATION OF ELECTRICAL CABLES UP TO 1KV.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Low Smoke Emission		
Uses	Insulation		
	Wire & Cable Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.46 to 1.52	g/cm ³	ASTM D792
Color	OK		ME 12
Color a	-0.970 to 2.03		ME 12
Color b	5.36 to 8.36		ME 12
Color L	87.3 to 90.3		ME 12
Moisture	< 600	ppm	ME 52
Cold Bend (-15°C)	OK		IEC 60811-1-4
Hot Deformation (80°C)	39.0		NBR 6239
Smoke Density - Transmittance	75	%	NBR 11300
Toxicity	0.650		NBR 12139
	5.60 pH		
Corrosivity of Gases	5.00 µS/mm		NBR 11633
Halogen Acid Gas Evolution	0.00	mg/g	NBR 10495
Maximum Variation of Elongation	< 20	%	IEC 60811-1-2
Maximum Variation of Tensile Strength	< 20	%	IEC 60811-1-2
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	93 to 97		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 12.6	MPa	IEC 60811-1-1
Tensile Strain (Yield)	> 140	%	IEC 60811-1-1
Elastomers	Nominal Value	Unit	Test Method

Tensile Strength ²	> 10.0	MPa	IEC 60811-1-2
Tensile Elongation ³ (Break)	> 120	%	IEC 60811-1-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -35.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁴	> 1.0E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 36	%	ASTM D2863
NOTE			
1.	24 hr		
2.	Aged in Air for 168 hr at 80°C		
3.	Aged in Air for 168 hr at 80°C		
4.	24 hr		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

