

## Crosslinkable flexible EPR-insulation for low and medium voltage cable

### Application

For flexible insulation of LV & MV cables by moisture curing process by mixing the base compound with crosslinking catalyst masterbatch generally in the ratio of 97/3.

### Specification

IEC 60502 EPR, IEC 60092-351 EPR; BS 7655 RS5, GP7, EN 50363-1 EI7; VDE 0207-20 3GI3

**Temperature Rating: 90°C**

### Data Sheet

NO.	TEST ITEM	UNIT	TYPICAL VALUE	TEST METHOD
1	Mechanical properties before aging			
1.1	Tensile Strength	Mpa	9	IEC 60811-1-2-1
1.2	Elongation at break	%	450	IEC 60811-1-2-1
2	Mechanical properties after aging 135°C, 168h			
2.1	Change ratio of Tensile Strength	%	<15	IEC 60811-1-2
2.2	Change ratio of Elongation at break	%	<5	IEC 60811-1-2
3	Specific gravity	g/cm <sup>3</sup>	0.9	ISO 1183
4	Ozone resistance	-	pass	IEC 69811-2-1
5	Dielectric constant (1 KHz)	-	2.3	ASTM D 150
6	Mooney-Viscosity (ML 1+4) 100°C	ME	70	ME ISO 1796
7	Cold Bend test Temperature -25°C	-	pass	EN 60811-1-4

Above data should be regarded as a general guide and should not be used as specification.

Data obtained after processing and testing should be adopted at the discretion of the user.

### Processing Condition

Many modern thermoplastic extruders will process the material although a screw designed to give good homogenisation without excessive shear (which could cause unacceptable increases in melt temperature) should be used. Extruders of L/D ratios (length/diameter) of 20-24 and extruder screws of compression ratio 1.2:1 are recommended. Good extrusion has been achieved already with compression ratio of 1:2 and 1:3.

The mass temperature at the extruder should not exceed 175°C, whilst 165°C mass temperature would be ideal.

### Package & Storage

Octabins with moisture resistant liners

Storage in cool dry conditions will maximise useful shelf life. A period of at least 6 months from date of manufacture can normally be expected. The following storage conditions are recommended:

Packaging should remain sealed

Avoid temperatures above 25°C

Avoid storage outside and in direct sunlight



hayassa@live.com

A business built on quality, experience and commitment to service