

## **megolon HF 8037 DD**

### Oil Resistant Sheathing Grade Compound

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#### DESCRIPTION

MEGOLON™ HF 8037 DD is a highly flexible, halogen free thermoplastic sheathing compound with excellent oil and fluid resistance and low die drool. In a fire situation, endothermic decomposition of the advanced filler system inhibits both primary ignition and propagation of flame. The emission of dense or toxic / corrosive fumes often associated with conventional wire and cable compounds is also greatly reduced. MEGOLON™ HF 8037 DD is resistant to UV radiation and exhibits a good balance of mechanical properties and is rated for operation at up to a maximum temperature of 105°C

#### APPLICATIONS

- Tray Cables
- Shipboard cables
- Oil Rig Cables
- Transit Cables
- Communication and Data Cables

#### TECHNICAL PROPERTIES

##### Primary Properties

	Unit	Nominal Value	Test Method
Tensile strength	MPa	11.7	IEC 60811-1-1
Elongation at break	%	200	IEC 60811-1-1
Oxygen Index	%	39	ISO 4589-2
Density	g/cc	1.53	ASTM D-792

##### Mechanical Properties

Tear strength	N/mm	-	BS 6469:99.1
Tensile strength retention after 7 days at 125°C	%	100	IEC 60811-1-2
Elongation at break retention after 7 days at 125°C	%	90	IEC 60811-1-2
Tensile strength retention after 7 days at 136°C	%	100	IEC 60811-1-2
Elongation at break retention after 7 days at 136°C	%	80	IEC 60811-1-2

Although AlphaGary believes these data are accurate as of the date hereof, they are provided for informational purposes only. It cannot be assumed that these data cover all uses, applications or conditions in connection with this material. Accordingly, AlphaGary makes no warranty, expressed or implied, that the product conforms to these data. Each customer or user of AlphaGary's materials is solely responsible for determining the suitability of the material(s) selected for the intended application. Each customer or user must conduct its own studies and gain all necessary approvals and certifications as required for the intended finished product.

## Oil and Fluid Resistance Properties

Aged 18 hours at 121°C in ASTM No. 2 oil			ASTM D-2633
Tensile strength % retained	%	95	
Elongation @ break % retained	%	100	

## Other Properties

Hardness	Shore A	85	ASTM D-2240
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## PROCESSING

MEGOLON™ HF 8037 DD can be processed on a commercially available single screw extruder. It is recommended that the shear should be kept as low as possible by employing a low compression screw (1.5 : 1). The preferred L/D ratio for the extruder is 20 : 1 or 24 : 1. A breaker plate and 20 / 40 mesh screen pack is necessary to generate desirable back pressure. Cable extrusion can be successfully accomplished using a pressure die or tubing extrusion with lower draw down ratio.

MEGOLON™ HF 8037 DD can, under certain circumstances, partly cross-link during processing. The product is formulated to minimise the risk of premature cross-linking, but processing of MEGOLON™ HF 8037 DD is the responsibility of the purchaser. AlphaGary cannot accept any liability for any premature cross-linking that may arise.

## TEMPERATURE PROFILE

The following conditions are given as a guide for processing, but should be adjusted to give a melt temperature of approximately 170°C.

<b>EXTRUDER</b>	<b>TEMPERATURE</b>
Zone 1	135°C
Zone 2	145°C
Zone 3	155°C
Zone 4	165°C
Head	165°C
Die	170°C
Typical Melt Temperature	170°C

## PRE-DRYING

Pre-drying is recommended for 1 – 2 hours at 70°C.

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