

### HEPR Insulation compound for Power Cables

#### Description

**DYP-6601P** is a cross-linkable insulation compound for power cables based on EPDM.(up to 35kV)

This compound provides good processing and long-run extrusion without scorch.

#### Specification

ICEA S-94-649

IEC 60502 type HEPR

BS 7655 1.2 type GP6

#### Typical Physical-Electrical Properties

Test items	Test method	Unit	Value
Specific Gravity at 23°C	ASTM D 792	-	1.20
Tensile Strength at break	IEC 60811-501	MPa	10
Elongation at break		%	400
M150		MPa	6
IRHD	ISO 48	-	H90
Tb after ageing (Retention)	IEC 60811-401	%	>90
Eb after ageing (Retention) (After 168 hrs at 135°C )		%	>80
Hot set test (250°C, 15min, 20N/cm <sup>2</sup> )	IEC 60811-507		
Elongation under load		%	25
Permanent elongation		%	5
Ozone resistance (0.025 ~ 0.03%, 24hrs)	IEC 60811-403	No crack	No crack
Water absorption (After 14 days at 85°C )	IEC 60811-402	mg/cm <sup>2</sup>	0.6
Volume resistivity at 23 °C	ASTM D 257	Ω·cm	6.0×10 <sup>15</sup>
Dielectric strength	ASTM D 149	kV/mm	32
Dielectric constant, 60Hz	ASTM D 1531	-	2.50

\* Data should not be used for specification work.

\* IRHD : International Rubber Hardness Degree.

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#### **Processing Techniques**

Recommending standard extrusion temperature profiles of **DYP-6601P** are as followings ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
90±5	95±5	100±5	105±5	110±5	115±5	115±5	115±5

It is recommended that this product be processed using regular Metering (Single Flight) screw.

(L/D=20~24:1, C/R=1.8~2.5:1) Specific recommendations for processing conditions can be determined only when the application and type of equipment are known.

#### **Color & Appearance**

This compound is an orange color and is supplied in pellet form.

#### **Packing**

Form : 550kg Cardboard Box (Inner PE bag packing)

#### **Handling**

To ensure health and safety, Material Safety Data Sheets(MSDS) is available on request.

#### **Storage**

Should be stored at room temperatures between 10~40°C. Recommended maximum storage period in a dry and clean place is 12months unopened and in original packaging after the manufacture.

#### **Disclaimer**

The product can be used only for the application as specified here above. It is the customer responsibility to inspect and test our products to satisfy the suitability of this product to customer's particular purpose. No liability can be accepted regarding the use of our products in conjunction with other materials. No warranties shall be offered which extend beyond the description contained here above. The above-mentioned information relates exclusively to our products when not used in conjunction with any third party materials.



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