

Data sheet

Granule Type: APJAC04

Description

APJAC04 is a linear low density compound for jacketing of power and communication cables.

APJAC04 is characterized by:

- * High melting temperature
- * Good petroleum-jelly resistance
- * Low water permeability

The excellent properties of **APJAC04** will give advantages in manufacturing, installation and performance of power and communication cables.

APJAC04 contains 2.5% well-dispersed (max 2 accordance BS 2782, ISO 18553) carbon black in order to ensure excellent weathering resistant.

Specifications

APJAC04 meets the applicable requirements as below:

ASTM D1248 Type 2, Class C, Category 4, Grade J3, E5

IEC60502-ST7 – EN 50290-2-23

Electrical Properties	Unit	Typical Value	Standard and Test Method
DC Volume Resistivity	cmΩ	10 ¹⁵	IEC60093
Dielectric strength(2mm thickness)	kV/mm	min 20	IEC60243
Dielectric constant at 1 MHz		Max. 2.3	ASTM D150
Dissipation factor at 1 MHz		Max. 0.005	ASTM D150
Physical Properties	Unit	Typical Value	Standard and Test Method
Density, compound	gr/cm ³	0.935±0.005	ASTM D792
Melt Flow Index(190°C/2.16kg)	gr/10min	max 1	ASTM D1238
Tensile Strength	N/mm ²	min 20	ASTM D638
Elongation	%	min 800	ASTM D638
ESCR (50°C.Cond.A-10% Igepal)	hr.	>5000	ASTM D1693
Hardness	Shore D	56±2	ASTM D2240(15sec)
Elongation at break after 240 hrs. at 110°C	%	min 300	ASTM D638
Brittleness Temperature	°C	<-70	ASTM D746
O.I.T at 200°C	min	>100	ASTM D3895

Processing Guidelines

APJAC04 provides excellent surface finish and allows a broad processing window. The actual extrusion conditions will depend on the type of equipment used. The following conditions may be used as a guide when starting up the extruder.

	zone 1	zone 2	zone 3	zone 4	head	die
max (°C)	160	170	180	190	220	230
min (°C)	140	150	160	170	200	210

If preheating and/or drying is used, the maximum temperature should be 80°C.

Safety

APJAC04 is classified as no-dangerous material.

Packaging

It is available in the form of pellets and supplied in PP laminated bag with a net content of 25 kg.

Technical Service

Abhar Polymer Compounds Technical Service is available to help the customer to choose the best product for his requirements.

Our Technical Service is at your disposal for further information and advice about the start-up and also for any possible necessity during the use of the product.

Disclaimer

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