

**KHJAC-BH495****Application and description:**

KHJAC-BH495 is a black high-density polyethylene jacketing material used in power cable applications. It is known for its outstanding properties and performance, along with good extrudability, making it ideal for jacketing compounds. This material offers excellent processing capabilities, combined with toughness, and resistance to stress cracking and deformation. It includes well-dispersed carbon black, ensuring superior weathering and UV resistance.

Color: Black**Specification:**

ASTM D1248/ Type III / class C / category 5 / grade J5

IEC60502: ST7

IEC60840 : ST7

IEC 60708

Physical & Mechanical Properties	Unit	Typical Value	Standard & test Method
Density	gr/cm ³	0.947 ± 0.005	IEC60811-606
Melt Flow Index (190 °C/2.16kg)	gr/10min	0.4 ±0.03	IEC60811-511
Carbon black content	%	2.4	ASTM D1603
Carbon black Dispersion	----	< 2.5	ISO 18553
Tensile strength	N/mm ²	> 27	IEC60811-501
Elongation at break	%	> 800	IEC60811-501
Tensile strength after 14 days at 110 °C	%	90 ± 5	IEC60811-501
Elongation at break after 14 days at 110 °C	%	90 ± 5	IEC60811-501
E.S.C.R (50 °C - Cond. B-10% Igepal)	hr	> 1000	ASTM D1693
O.I.T at 200°C	min	Min 30	ASTM D3895
Hardness	Shore D	59 ± 1	ASTM D2240
Oil Immersion test; 4hr, 70°C			
Tensile Strength variation	%	< ±10	ASTM D2633
Elongation variation	%	< ±10	
Hot pressure test at 110 °C	%	< 30	IEC 60811-3-1
Volume resistivity	Ω.cm	>10 ¹⁵	IEC 60093
Dielectric strength (2 mm thickness)	kV/mm	No breakdown at 20	IEC 60243

Head Office: 5th floor, Number 51, 6th Golestan street, Pasdaran Avenue, Tehran, Iran. Tel : (+98 21)79453000, Fax: (+98 21)88762819

info@khorramco.com website:www.khorramco.com



Temperature profile:

The specific extrusion conditions will vary based on the equipment used, but the following parameters can serve as a guideline for starting up the extruder. The recommended temperature settings for the extruder with L/D around 22-24 for KHJAC-BH495 are as follows :

	Zone 1	Zone 2	Zone 3	Zone 4	Head	Die
Temp (°C)	150-160	160-170	170-180	180-200	200-210	210-220

Preheating/pre-drying is recommended for two to three hours and the temperature should not be over 90 °C.

Packaging

It is available in pellet form and is supplied in polyethylene bags with a net weight of 25 kg.

Storage

dry place, away from the sun, temperature below 30 °C

Disclaimer

-The test results were obtained using laboratory equipment. Changing the testing machine may lead to different outcomes, which could occasionally fall outside the standard.

-The specifications provided are meant to serve as guidelines only.

The compound can be used on different machines; however, certain adjustments may be necessary for each specific machine.

-Customers are encouraged to verify the quality before commercial use. No guarantees or warranties of any kind are provided after processing.