

## HFI 150

### Material Information



Property	Test method	Conditions	Value
<b>Physical and Mechanical</b>			
Cont. service temp.	IEC 60216	20000h	135°C
Density	ASTM D792		1.2 g/cm <sup>3</sup>
Elongation at break	ASTM D638		100%
Elongation at break	IEC 60811-1-1	250 mm/min	100%
Elongation at break	ISO 527	50 mm/min	110%
Flexural modulus	ISO 178	2 mm/min	475 MPa
Flexural modulus	ASTM D790	6.4 mm	386.1 MPa
Hardness shore	ASTM D2240		60D
Radiation resistance	IEC 60544		>10 <sup>6</sup> Gy
Temperature range			-50°C to 135°C
Tensile strength at break	ASTM D638		30 MPa
Tensile strength at break	IEC 60811-1-1	250 mm/min	25 MPa
Tensile strength at break	ISO 527	50 mm/min	25 MPa
Water absorption	ASTM D570		0.12%
<b>Electrical</b>			
Dielectric constant	ASTM D150	0.1kHz/ 10MHz	3.0/ 2.7
Dissipation factor	ASTM D150	0.1kHz/ 10MHz	0.01/ 0.03
Volume resistivity	ASTM D257		4.6x10 <sup>16</sup> ohm-cm
<b>Flammability</b>			
Combustion corrosivity	DIN 57472-813		pH 5.7/ 100uS/cm
Flame retardancy	NF C 32-070		C1
Flammability	UL 94	3.2 mm	V-0
Oxygen index	ASTM D2863		45%
Smoke index	NF F 16-101		6.1 (class F1)
Smoke index	Def St 61-12 part 18/2	per m wire	4
Temperature index	NES 715		>350 °C
Toxicity index	NF C 20-454	100g	15.7
Toxicity index	NF C 20-454	100g H-BF 1.5 wire	3.7
Toxicity index	Def St 61-12 part 18/2	per m wire	0.07
<b>Chemical</b>			
Acids		good	
Bases		fair	
Fuels		good	
Oils		good	

**IMPORTANT**

Habia Cable has compiled the information contained herein from what it believes are authoritative sources and believes that is accurate and factual as of the date printed.

It is offered solely as a convenience to its customers and is intended only as a guide concerning the materials mentioned.

Any changes in the data sheet will be made without notification.

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