

HDPE

W320K

HDPE for wires & cable

Application

Jacket, Wire & cable

Characteristics

Excellent ESCR, Excellent processability and appearance, Excellent mechanical properties, Uniform additive dispersibility

Physical properties

Item	Test Method	Unit	Typical Value
Melt index	ASTM D1238 (190°C, 2.16kg)	g/10min	0.5
Density	ASTM D1505	g/cm ³	0.958
Carbon black content	ISO R6964	%	2.5
Carbon black dispersion	ISO R18553	Grade	≤3
UV Absorption coefficient	ASTM D3349	Abs/mm	400
Environmental stress crack resistance	ASTM D1693 (F0, 50°C, 10 % Igepal)	hrs	>5,000
Tensile strength	ASTM D638	kg/cm ²	300
Elongation (at break)	ASTM D638	%	800
Flexural modulus	ASTM D790	kg/cm ²	10000
Shore hardness	ASTM D2240	D Scale	61
Oxidation induction time (200°C)	ASTM D3895	Minute	>100
Volume resistivity	ASTM D257	Ωcm	1016
Dielectric strength	ASTM D149	kV/mm	>20

Note) Data shown above are representative values for reference purposes only, and not to be construed as specifications.

Certification

HTPC W320K meets the following material classification:

ASTM D1248 Type III, Class C, Category 4, Grade E8, E9, J4, W8, W9

ISO 1872-PE, KCHL, 45 D-006

Cables manufactured with HTPC W320K using sound commercial extrusion practice generally comply with the following cable product standards:

IEC 60502, Part 2, Type ST7

IEC 60708

IEC 60840, Type ST7

Contact information

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