

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

Hanwha TotalEnergies Petrochemical co. Ltd.
www.htpchem.com

Sales Office
04525 No.92, Sejong-daero, Jung-gu, 16, 18-20F, Hanwha
Finance Plaza, Seoul, Republic of Korea
16th floor of Hanwha Financial Plaza

Customer Technical Service
31900 103, Dokgot 2-ro, Daesan-eup, Seosan-si,
Chungcheongnam-do, Republic of Korea
T. 041-660-6190 F. 041-660-6189

Disclaimer

This document is copyrighted by Hanwha TotalEnergies Petrochemical. All information is for reference only and is not the specifications of the final product. Customers should make their own judgments as to whether our products and information serve a particular purpose and what regulations apply to customers' use of such products. Hanwha TotalEnergies Petrochemical is not responsible or obligated for the contents of this document. Hanwha TotalEnergies Petrochemical provides no warranties of any kind, either express or implied (such as merchantability and or fitness for a particular purpose, etc.) with respect to any information contained in this material. Hanwha TotalEnergies Petrochemical may arbitrarily change the contents of this material without prior notice.