



HDPE for Wire&Cable

YUHWA HIDDEN P603H BL

Features
and Uses

Properties

Application	HDPE for Wire&Cable			
Features	SCG, Heat Resistance, Long term Properties, UV Resistance, ESCR, Color:Black			
Uses	Wire & Cable Jacket			
Items		Specification	Unit	Test Method
Melt Index		0.33	g/10min.	ASTM D1238
Density		0.956	g/cm³	ASTM D1505
Mold Shrinkage		1.5~2.5	%	KPIC Method
Tensile Strength at Yield		210	kgf/cm²	ASTM D638
Elongation at Break		>700	%	ASTM D638
Flexural Modulus		8,000	kgf/cm²	ASTM D790
Hardness		62	Shore D	ASTM D2240
Impact Strength (Izod with Notch)		>50	kgf cm/cm	ASTM D256
Environment Stress Cracking Resistance		>5,000	hr. Cond. B. 10%	ASTM D1693
Melting Point		129	°C	ASTM D3418
Softening Point (Vicat)		122	°C	ASTM D1525
Heat Deflection Temperature		59	°C	ASTM D648
Brittleness Temperature		<-80	°C	ASTM D746
Carbon Black Content		2.6	%	ISO 6964
Carbon Black Particle Size		<20	nm	—
Carbon Black Dispersion		<3	Grade	ISO 18553
Thermal Expansion		1.5	10⁻⁵cm/cm °C	ASTM D696
Specific Heat		0.45	cal/g°C	KPIC Method
Volume Resistivity		1	10¹⁷ohm.cm	ASTM D257
Dielectric Constant (1KHz)		2.3		ASTM D150
Dissipation Factor (1KHz)		2	10⁻⁴	ASTM D150
Dielectric Strength (Short Time)		>30	KV/mm	ASTM D149