

HIDEN® P603H BL

High Density Polyethylene

YUHWHA Korea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® P603H BL is a High Density Polyethylene material. It is available in Asia Pacific.

Important attributes of HIDEN® P603H BL are:

- RoHS Compliant
- Good UV Resistance
- Heat Resistant
- High ESCR (Stress Crack Resistant)
- Typical applications include:
 - Wire & Cable
 - Food Contact Applications

General Information			
Features	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Heat Resistance		
Uses	Cable Jacketing		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	FDA Food Contact, Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 2.5	%	Internal Method
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Environmental Stress-Cracking Resistance ¹	> 5000	hr	ASTM D1693B
Carbon Black Content	2.6	%	ISO 6964
Carbon Black Dispersion	< 3		ISO 18553
Particle Size - Carbon Black	< 20.0	nm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.6	MPa	ASTM D638
Tensile Elongation (Break)	> 700	%	ASTM D638

Flexural Modulus	785	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	59.0	°C	ASTM D648
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Peak Melting Temperature	131	°C	ASTM D3418
NOTE			
1.	10%		

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Recommended distributors for this material

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