

HIDEN® P301E BL

High Density Polyethylene

YUHW A Korea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® P301E BL is a High Density Polyethylene material. It is available in Asia Pacific.

Important attributes of HIDEN® P301E BL are:

RoHS Compliant

Carbon Black

Creep Resistant

Typical applications include:

Plumbing/Piping/Potable Water

Food Contact Applications

General Information			
Additive	Carbon Black (2%) 2		
Features	Good Creep Resistance		
Uses	Piping		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	PPI PE-80		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	> 5000	hr	ASTM D1693
Carbon Black Content	2.3	%	ISO 6964
Carbon Black Dispersion	< 3		ISO 18553
Oxidation Induction Time (200°C)	> 40	min	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	30		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	21.6	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	834	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)	60.0	°C	ASTM D648

Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Peak Melting Temperature	132	°C	ASTM D3418

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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