

HIDEN® P301E

High Density Polyethylene

YUHWHA Korea Petrochemical Ind. Co., Ltd.

Message:

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

Important attributes of HIDEN® P301E are:

RoHS Compliant

Creep Resistant

Typical applications include:

Plumbing/Piping/Potable Water

Food Contact Applications

General Information			
Features	Good Creep Resistance		
Uses	Piping		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	PPI PE-80		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.12	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Environmental Stress-Cracking Resistance ¹	> 5000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	30		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.6	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	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)	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
Oxidation Induction Time (200°C)	> 40	min	ASTM D3895

NOTE

1. 10%

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Recommended distributors for this material

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