

# HIDEN® P502 YE

High Density Polyethylene

YUHW A Korea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® P502 YE is a High Density Polyethylene material. It is available in Asia Pacific.

Important attributes of HIDEN® P502 YE are:

RoHS Compliant

Creep Resistant

Good Flexibility

Typical applications include:

Plumbing/Piping/Potable Water

Food Contact Applications

General Information			
Features	Good Creep Resistance		
	Good Flexibility		
Uses	Piping		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	PPI PE-80		
RoHS Compliance	RoHS Compliant		
Appearance	Yellow		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.941	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.15	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Environmental Stress-Cracking Resistance <sup>1</sup> (Condition B)	> 5000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	19.1	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	588	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)	57.0	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746

Vicat Softening Temperature	120	°C	ASTM D1525
Peak Melting Temperature	130	°C	ASTM D3418
CLTE - Flow	1.5E-4	cm/cm/°C	ASTM D696
Oxidation Induction Time (200°C)	> 40	min	
Pigment Dispersion	< 3.00		ISO 18553

#### NOTE

1. 100%

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#### Recommended distributors for this material

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