

# YUCLAIR® PI500

Medium Density Polyethylene

SK Global Chemical

## Message:

YUCLAIR PI500 is medium density polyethylene resin with broad molecular weight distribution and relatively low melt index of 0.33 g/10min. It offers a high degree of cold temperature impact resistance, stress crack resistance and toughness combined with good processability.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Good Processability
	Good Toughness
	High ESCR (Stress Crack Resist.)
	Low Flow
	Low Temperature Impact Resistance
	Wide Molecular Weight Distribution
Uses	Pipe Coatings
	Piping

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)	0.33	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Films	Nominal Value	Unit	Test Method
Tensile Strength - MD			ASTM D882
Yield	18.6	MPa	
Break	27.5	MPa	
Tensile Elongation - MD (Break)	900	%	ASTM D882
Flexural Modulus - MD	677	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	119	°C	ASTM D1525
Melting Temperature	125	°C	ASTM D2117

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Recommended distributors for this material

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