

MDPE PI500

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.

Application / Use Case

P/Coating / pipe, pipe coating

Characteristic

Processability, ESCR

Specification

	Specification	Unit	Test Method
Density	0.941	g/cm ³	ASTM D1505
Melt Index	0.33	g/10min	ASTM D1238

Physical Properties

	Value	Unit	Test Method
Additives	A/O		
Softening Point(Vicat)	119	°C	ASTM D1525
Tensile Strength at Yield	190	kg/cm ²	ASTM D882
Tensile Strength at Break	280	kg/cm ²	ASTM D882
Elongation at Break	900	%	ASTM D882
IZOD Impact Strength(Notched, 23°C)	NB	kg·cm/cm	ASTM D256
ESCR	>1000	hr	ASTM D1693
Melting Point	125	°C	ASTM D2117
Brittleness Temperature	<-80		
Flexural Modulus	6900	kg/cm ²	ASTM D790

Hardness	60	Shore D	ASTM D2240
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These are typical properties only, and are not to be construed as specific limits.