



Data Sheet
Date Prepared:

MDPE RG500U

YUCLAIR RG500U is medium density linear polyethylene resin with narrow molecular weight distribution displaying excellent process ability and overall general toughness and strength. Extra high stress-crack resistance and impact strength make YUCLAIR RG500U very suitable for demanding applications requiring extreme toughness. RG500U contains UV-stabilizer and is used for applications demanding maximum protection against out-door weathering. YUCLAIR RG500U, complies with the U.S. Food & Drug Administration regulation 121.2501, entitled ``Olefin Polymers`` currently in effect.

Application / Use Case

Roto Molding / container, large container

Characteristic

Processability, Stiffness

Specification

	Specification	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Index	5	g/10min	ASTM D1238

Physical Properties

	Value	Unit	Test Method
Softening Point(Vicat)	117	°C	ASTM D1525
Tensile Strength at Break	250	kg/cm ²	ASTM D882
Elongation at Break	700	%	ASTM D882
IZOD Impact Strength(Notched, 23°C)	NB	kg·cm/cm	ASTM D256
ESCR	>1000	hr	ASTM D1693
Melting Point	123	°C	ASTM D2117

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Brittleness Temperature	<-80	°C	ASTM D746
Flexural Modulus	6500	kg/cm ²	ASTM D790
Hardness	55	Shore D	ASTM D2240

These are typical properties only, and are not to be construed as specific limits.

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