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YUCLAIR RG500U

YUCLAIR RG500U, medium density polyethylene, is an ethylene-butene copolymer with narrow molecular weight distribution. It offers a high impact resistance, stress crack resistance and toughness combined with good processability. YUCLAIR RG500U contains UV-stabilizer, for use in products requiring out-door weathering resistance.

Application / Use Case

Roto molding / Container

Specification

	Specification	Unit	Test Method
Density	0.938	g/cm³	ASTM D1505
Melt Index	5.0	g/10min	ASTM D1238

Physical Properties

	Norminal Value (English)	Norminal Value (SI)	Test Method
Tensile Strength at Break	3560 psi	24.5 MPa	ASTM D638[2]
Elongation at Break	700%	700%	ASTM D638[2]
Izod Impact Strength (Notched, 23 °C)	N.B	N.B	ASTM D256
Hardness (Shore D)	55	55	ASTM D2240
Flexural Modulus	71,120 psi	490 MPa	ASTM D790
ESCR	>300 hr	>300 hr	ASTM D1693
Vicat Softening Temperature	243 °F	117 °C	ASTM D1525
Brittleness Temperature	<-112 °F	<-80 °C	ASTM D746

[1] Evaluated using Injection molded sample
[2] Crosshead speed: 50 mm/min

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Notes

These are typical values and are not to be construed as specifications. The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.

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