

YUCLAIR® RG500U

Medium Density Polyethylene

SK Global Chemical

Message:

YUCLAIR RG500U is medium density linear polyethylene resin with narrow molecular weight distribution displaying excellent processability 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.

General Information			
Additive	UV Stabilizer		
Features	Good Processability		
	Good Strength		
	Good UV Resistance		
	Good Weather Resistance		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Narrow Molecular Weight Distribution		
	Ultra High Toughness		
Uses	Containers		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Films	Nominal Value	Unit	Test Method
Tensile Strength - MD (Break)	24.5	MPa	ASTM D882
Tensile Elongation - MD (Break)	700	%	ASTM D882
Flexural Modulus - MD	637	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	117	°C	ASTM D1525
Peak Melting Temperature	123	°C	ASTM D2117

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Recommended distributors for this material

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