

YUCLAIR® MB509U

Medium Density Polyethylene

SK Global Chemical

Message:

YUCLAIR MB509U 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. MB509U contains UV-stabilizer, for use in products requiring out-door weathering resistance.

General Information			
Additive	UV Stabilizer		
Features	Good Processability		
	Good Toughness		
	Good UV Resistance		
	Good Weather Resistance		
	High ESCR (Stress Crack Resist.)		
	Low Flow		
	Low Temperature Impact Resistance		
	Wide Molecular Weight Distribution		
Uses	Pipe Coatings		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	27.5	MPa	ASTM D638
Tensile Elongation (Break)	900	%	ASTM D638
Flexural Modulus	667	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	118	°C	ASTM D1525
Melting Temperature	124	°C	ASTM D2117

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