Data Sheet

Date Prepared:

MDPE MB509U

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.

Application / Use Case

Pipe Coating / pipe coating

Characteristic

ESCR, Processability

Specification

	Specification	Unit	Test Method
Density	0.939	g/cm3	ASTM D1505
Melt Index	0.35	g/10min	ASTM D1238

Physical Properties

	Value	Unit	Test Method
Softening Point(Vicat)	118	°C	ASTM D1525
Tensile Strength at Break	280	kg/cm²	ASTM D638
Elongation at Break	900	%	ASTM D638
IZOD Impact Strength(Notched, 23°C)	NB	kg·cm/cm	ASTM D256
ESCR	>1000	hr	ASTM D1693
Melting Point	124	°C	ASTM D2117
Brittleness Temperature	<-80	°C	ASTM D746
Flexural Modulus	6800	kg/cm²	ASTM D790
Hardness	58	Shore D	ASTM D2240

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

Head Office 99 Seorin-dong, Jongno-gu, Seoul 110-110, Korea
Tel. 82-2-2121-5114 Fax. 82-2-2121-7001

SK Institute of Technology 140-1 Woncheon-dong, Yuseong-gu, Taejeon, Korea
Tel. 82-42-866-7624 Fax. 82-42-866-7603

Online www.skglobalchemical.com
www.skchem.com

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