

Specification of Polyethylene (HDPE)

Property	Test Method	Value	Unit
Resin Properties			
Melt Flow Rate	ASTM D 1238 @ 190 C, 2.16 kg	0.04	g/10 min
Density	ASTM D 1505	0.954	g/cm ³
Melting Point	ASTM D 2117	131	C
Vicat Softening Point	ASTM D 1525	124	C
Brittleness Temperature	ASTM D 746	< -60	C
ESCR	ASTM D 1693 @ 50 C	>1000	hrs, F50
PROPERTIES			
Physical properties			
Property	Test Method	Value	Unit
Film Properties			
Tensile Strength at Yield	ASTM D 882	MD: -*, TD: 250*	kg/cm ²

Property	Test Method	Value	Unit
Tensile Strength at Break	ASTM D 882	MD: 620*, TD: 310*	kg/cm2
Tensile Modulus, 2% Secant	ASTM D 882	MD: 8200*, TD: 8000*	kg/cm2
Elongation at Break	ASTM D 882	MD : 240*, TD : 450*	%
Elmendorf Tear Strength	ASTM D 1922	MD : 3*, TD : 80*	g
Dart Impact Strength	ASTM D 1709	139*	g