

HIGH DENSITY POLYETHYLENE (HDPE)**HDPE - F600**

Application	:	Film
Characteristics	:	High Tear Strength, High Rigidity
Use Cases	:	Shopping Bag, General Packaging

Specification

Item (Term)	Value	Unit	Test Method
Melt Index	0.035	g/10min.	ASTM D1238
Density	0.957	g/	ASTM D1505

Physical Properties

Item (Term)	Value	Unit	Test Method
Mold Shrinkage (Linear)	1.5~2.5	%	KPIC Method
Water Absorption	0.01>	%	ASTM D570
Tensile Strength (Yield)	400	kgf/cm ²	ASTM D638
Elongation (Break)	500<	%	ASTM D638
Flexural Modulus	10,000	kgf/cm ²	ASTM D790
Hardness (Rockwell)	47	R Scale	ASTM D785
Impact Strength (Izod with notch)	50<	kgf cm/cm	ASTM D256
Melting Point	134	°C	ASTM D3418
Softening Point (Vicat)	123	°C	ASTM D1525
Heat Deflection Temperature	62	°C	ASTM D648
Brittleness Temperature	-70>	10 ⁻⁴ cal/cm/cmsec. °C	KPIC Method
Thermal Expansion (Linear)	1.5	10 ⁻⁵ /	ASTM D696
Specific Heat	0.45	/g	KPIC Method
Volume Resistivity	1	10 ¹⁷ ohm.	ASTM D257
Dielectric Constant (1KHz)	2.3		ASTM D150
Dissipation Factor (1KHz)	2	10 ⁻⁴	ASTM D150
Dielectric Strength (Short Time)	48	KV/	ASTM D149
E.Stress Cracking Resistance	1,000<	hr.Cond.B.10%	ASTM D1693

NB: OTHER GRADES ARE ALSO AVAILABLE.