

High Density Polyethylene (HDPE) — Film Grade Data Sheets

Grade			Film	
			9000	9001
Properties	Unit	Test Method		
Melt Index MI _{2.16}	g/10min	ASTM D1238	0.07	0.05
Melt Index MI ₅ /MI _{2.16}	g/10min	ASTM D1238		
Density	g/cm ³	ASTM D1505	0.950	0.950
Thermal properties				
Melting point	°C	FPC Method	130	130
Softening point	°C	ASTM D1525	123	123
Brittleness point	°C	ASTM D746	<-70	<-70
Mechanical properties				
Tensile strength at yield	Kg/cm ²	ASTM D638	260	260
Tensile strength at break	Kg/cm ²	ASTM D638	370	380
Elongation at break	%	ASTM D638	850	800
Tensile Impact Strength	kg . cm/cm ²	ASTM D1822	650	800
Izod Impact Strength	Kg-cm/cm notch	ASTM D256	22	22
Hardness	Shore D	ASTM D2240	65	65
ESCR	Hours	ASTM D1693	500	>1000
Die Swell Ratio	%	FPC Method		
Pich-off thickness	—	FPC Method		
Electrical properties				
Dielectric Constant 1MHz		ASTM D1531		
Dissipation Factor 1MHz		ASTM D1531		
Volume Resistivity	Ohm-cm	ASTM D257		
Characteristics			High film strength and toughness Hig-speed processability Good film thickness distribution	High film strength and toughness Excellent processing stability Good film thickness distribution
Application			Small shopping bag Roll bag Super thinness bag	Shopping bag Roll bag Garbage bag Underground sewer pipe

PS.: 1. Processing condition : Processing Temperature = 180 - 220°C、BUR = 3 - 6

2. Data shown are average values and should not be examined for specifications.