

Petro Rabigh PE F0554

High Density Polyethylene
Rabigh Refining & Petrochemical Co.

Message:

F0554 is a high molecular weight high density polyethylene resin designed for blown film applications. This resin has broad molecular weight distribution that makes it easier to process. Films made from this resin exhibit high stiffness, excellent impact and toughness characteristics.

Applications

Shopping bag

Trash bag

Industrial liner

General Information			
Features	Good Processability		
	Good Toughness		
	High Impact Resistance		
	High Molecular Weight		
	High Stiffness		
	Wide Molecular Weight Distribution		
Uses	Bags		
	Film		
	Liners		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.050	g/10 min	
190°C/21.6 kg	9.3	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 20 µm ¹	990	MPa	
1% Secant, MD : 20 µm ²	930	MPa	
1% Secant, TD : 20 µm ³	1140	MPa	
1% Secant, TD : 20 µm ⁴	1030	MPa	
Tensile Strength			
MD : Yield,20 µm ⁵	35.0	MPa	ASTM D882
TD : Yield,20 µm ⁶	30.0	MPa	ASTM D882
MD : Break, 20 µm ⁷	75.0	MPa	ASTM D882
MD : Break, 20 µm ⁸	70.0	MPa	ASTM D882
TD : Break, 20 µm ⁹	55.0	MPa	ASTM D882

TD : Break, 20 μm ¹⁰	65.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD : Break, 20 μm ¹¹	520	%	
MD : Break, 20 μm ¹²	560	%	
TD : Break, 20 μm ¹³	560	%	
TD : Break, 20 μm ¹⁴	550	%	
Dart Drop Impact			ASTM D1709
20 μm ¹⁵	250	g	
20 μm ¹⁶	330	g	
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm ¹⁷	11	g	
MD : 20 μm ¹⁸	17	g	
TD : 20 μm ¹⁹	78	g	
TD : 20 μm ²⁰	39	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ²¹	126	°C	ASTM D1525 ²²
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			
1.	With Stabilizer		
2.	Without Stabilizer		
3.	With Stabilizer		
4.	Without Stabilizer		
5.	With Stabilizer		
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21.	Without Stabilizer		
22.	Loading 1 (10 N)		

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