

# Evolve™ SP4530

Linear Low Density Polyethylene

Prime Polymer Co., Ltd.

## Message:

Evolve™SP4530 is a linear low density polyethylene product. It can be processed by casting film and is available in North America, Europe or Asia Pacific. Evolve™The application areas of SP4530 include film and coating applications.

Features include:

Rapid Prototyping Cycle

Good stiffness

General Information			
Features	Rigid, good		
	Fast molding cycle		
Uses	Films		
	Laminate		
	cast film		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (Injection Molded)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, injection molding	16.0	MPa	ISO 527-2
Fracture, injection molding	17.0	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	500	%	ISO 527-2
Flexural Modulus (Injection Molded)	720	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (Injection Molded)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	116	°C	ISO 306
Melting Temperature (DSC)	129	°C	ISO 3146
Additional Information			

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357-3 Tensile Strain at Break, ISO 527: >500% Tensile Stress at Break, ISO 527: >17 MPa

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