

Prime PE HMWPE 1000 SR

High Molecular Weight Polyethylene

Primex Plastics Corporation

Message:

Prime HMWPE SR is a coextruded product consisting of a cap layer on both sides of the sheet to provide a skid resistant surface.

Applications:

Prime HMWPE SR is designed for pallets, dunnage trays, truck bed liners or any other parts that require a high COF.

Processing:

Prime HMWPE 1000 SR is extruded and thermoformed using the same conditions as HMWPE. However, an A-B-A feed block is required for extruding the 3-layer sheet.

Finishing:

Cutting and machining of this product may be done by sawing, drilling, grinding, sanding, punching, die cutting and routing. The material may be bonded with mechanical fasteners and sonic welding.

Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.

Colors, Textures and Capabilities:

Prime HMWPE SR can be color matched to meet your specific requirements. Available textures include H/C, Levant II, Seville, RM and Levant III. This product is offered in .100 to .400 in. total thickness and up to 160" wide.

General Information			
Features	Bondability		
	High ESCR (Stress Crack Resist.)		
	High Friction		
	Low Temperature Impact Resistance		
	Skid Resistant		
	Ultra High Impact Resistance		
	Ultra High Molecular Weight		
	Ultrasonic Weldable		
Uses	Liners		
	Pallets		
	Support Trays		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.944	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	> 600	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D638

Flexural Modulus	1170	MPa	ASTM D790
Coefficient of Friction	0.44		ASTM D3028
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	270	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	60.0	°C	ASTM D648
Vicat Softening Temperature	116	°C	ASTM D1525
Melting Temperature	130	°C	
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
NOTE			

1. HLMI

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

