

POLYPROPYLENE (S)

Layfield's supported styles of Polypropylene [PP (S)] combine the unique attributes of the PP polymer formulation with the mechanical strength of a 250 lb polyester scrim. PP (S) brings together two soft, supple PP films laminated onto a reinforcing scrim layer. The resulting geomembrane is strong enough to hang vertically in the form of a baffle curtain or tank liner and durable enough to leave exposed to the elements for many years. PP(S) is UV stabilized with 2 to 3% carbon black included in the formulation. This polymer is resistant to surfactants, which can cause environmental stress cracking in HDPE. PP (S) maintains its flexibility at low temperatures, making severe winter installations or service conditions an easy application to resolve.

April 2023		Polypropylene [S]			
Material Properties	Style	ASTM	PP 36 (S)	PP 45 (S)	PP 60 (S)
	Thickness (nominal)	D1593	36 mil 0.91 mm	45 mil 1.14 mm	60 mil 1.50 mm
	Tensile Strength @ Break (MD/CD)	D751	200 lbs 890 N	250 lbs 1,100 N	250 lbs 1,100 N
	Elongation	D751	25%	25%	25%
	Tear Resistance (MD/CD)	D5884	80 lbs 356 N	100 lbs 445 N	100 lbs 445 N
	Puncture Resistance	D4833	85 lbs 380 N	85 lbs 380 N	90 lbs 400 N
	Low Temperature	D2136	-40°F -40°C	-40°F -40°C	-40°F -40°C
	Hydrostatic Resistance	D751 Method A	350 psi 2.4 mPa	390 psi 2.7 mPa	440 psi 3.0 mPa

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