

# HYPAFLEX® CSPE

When it comes to long-term performance in exposed liner and cover applications, HypaFlex® (Chlorosulfonated Polyethylene - CSPE) is the gold standard. Engineered to withstand extreme heat and UV exposure, HypaFlex® has been used extensively for water containment and protection for over 50 years and is backed with an industry-leading 30-year weathering warranty. Additionally, HypaFlex® is NSF 61 compliant, making it safe and suitable for potable water applications.

The use of HypaFlex® floating covers in reservoirs is one of the most economical methods of storing and treating large volumes of water. Reservoirs using CSPE are often up to 70% more cost-effective versus above-ground tanks or underground clearwells. With over 400 successful floating cover projects worldwide, you can trust that HypaFlex® is built to last.

Material Properties	June 2025		HypaFlex® CSPE			
	Style	ASTM	M-283	M-284	M-423	M-529
	Total Plies	-	3	3	3	5
	Thickness (Nominal)	D751	36 mil 0.9 mm	45 mil 1.14 mm	60 mil 1.5 mm	60 mil 1.5 mm
	Tensile Strength	D751	225 lbs 1000 N	250 lbs 1100 N	300 lbs 1300 N	425 lbs 1890 N
	Elongation	D751	50%	60%	75%	65%
	Puncture	FTMS101 (2031)	200 lbs 890 N	225 lbs 1000 N	250 lbs 1100 N	400 lbs 1780 N
	Ozone Resistance	D1149	No Effect	No Effect	No Effect	No Effect
	Hydrostatic Resistance	D751A	300 psi 2100 kPa	375 psi 2400 kPa	400 psi 2760 kPa	500 psi 3450 kPa
	Tear Strength	D751 Tongue	70 lbs 310 N	80 lbs 350 N	80 lbs 350 N	130 lbs 580 N
Low Temperature	D2136	-40°F -40°C	-40°F -40°C	-40°F -40°C	-40°F -40°C	

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June 2025

## CSPE Minimum Field Seam Strengths

Style	ASTM	M-283	M-284	M-423	M-529
Heat Bonded Seam Strength	D7749	200 lbs 890 N	225 lbs 1000 N	270 lbs 1200 N	360 lbs 1600 N
Heat Bonded Peel Adhesion	D7747	Film Tear Bond	Film Tear Bond	Film Tear Bond	Film Tear Bond

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## CSPE Minimum Shop Seam Strengths

Style	ASTM	M-283	M-284	M-423	M-529
Heat Bonded Seam Strength	D7749	200 lbs 890 N	225 lbs 1000 N	270 lbs 1200 N	360 lbs 1600 N
Heat Bonded Peel Adhesion	D7747	Film Tear Bond	Film Tear Bond	Film Tear Bond	Film Tear Bond

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