

45 mil LifeGuard Physical Properties

Property	Test Method	Minimum ASTM Performance	Typical Values
Thickness, min			
Sheet-overall	ASTM D 412	0.040 in (1.016 mm)	0.040 in (1.016 mm)
Tensile strength, min	ASTM D 412 (Die C)	1305 psi (9.0 Mpa)	1425 psi (9.8 Mpa)
Elongation, ultimate, min	ASTM D 412 (Die C)	300%	450%
Tensile set, max	ASTM D 412 Method A (Die C)	10%	5%
Tear resistance, min	ASTM D 624 (Die C)	150lb/in (26.3 kN/m)	200 lbf/in (35.0 kN/m)
Brittleness point, max	ASTM D 2137	(-49f) (45°C)	63°F (53°C)
Ozone resistance, no cracks	ASTM D 1149	Pass	Pass
Heat Aging:	ASTM D 573		
Tensile strength, min	ASTM D 412 (Die C)	1205 psi (8.3 Mpa)	1415 psi (9.7 Mpa)
Elongation, ultimate, min	ASTM D 412 (Die C)	200%	290%
Tear resistance, min	ASTM D 624 (Die C)	125 lbf/in (21.9 kN/m)	180 lbf/in (31.5 kN.m)
Linear dimensional change, max	ASTM D 1204	±1.0%	-0.70%
Water absorption, max, mass %	ASTM D 741	(+8,-2%)	(+1.8%)
Factory seam strength, min	ASTM D 816, Method B (Modified)	50 lbf/in (8.8 kN.m) or sheet failure	sheet failure
Weather resistance:			
Visual inspection	ASTM D 518	pass	pass
PRFSE, min	ASTM D 518	30%	63%
Elongation, ultimate, min	ASTM D 412 (Die C)	200%	290%

