

## AerForm® LHR

### Technical Data Sheet

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PHYSICAL PROPERTIES				
Property	Test Method	Result		
Density	ASTM-D792	1.55		
Heat Distortion	ASTM-D648	185°F (85°C) @ 264 psi		
Forming Temperature		300° - 330°F (150° - 165°C)		
UV Stability (QUV 340 A Bulb)	ASTM-G53 300 hours	DE < 1		
Abrasion Resistance	ASTM-D1044 (CS 17 wheel, 250g, 1000 revolutions)	Weight loss < 7mg		
Flexural Modulus	ASTM-D790	4.2 x 10 <sup>5</sup> psi (2894 MPa)		
Dimensional Stability	ASTM-D1204 @ 200°F (92°C)	Machine Direction 0.35% Transverse Direction 0.15%		
Impact	ASTM-D256 @ 73°F (23°C)	Gauge 0.085" (2.16mm)	US/Eng 1-2ft lb/in	Metric 50-100 J/m
Impact	ASTM-D3029 Method G @ 73°F (23°C)	Gauge 0.045"/1.1mm 0.065"/1.7mm 0.085"/2.1mm 0.125"/3.2mm	US/Eng 75 in-lb 90 in-lb 122 in-lb 181 in-lb	Metric 9 J 10 J 14 J 20 J
Tensile Strength (Ultimate)	ASTM-D638		7720 psi	53 MPa
Tensile Modulus	ASTM-D638		4.5 x 10 <sup>5</sup>	3,101 MPa
Tensile Elongation (Ultimate)	ASTM-D638		134%	134%

FLAMMABILITY PROPERTIES					
Property	Test Method	Result			
OSU Heat Release & NBS Smoke <sup>1</sup>	FAR 25.853	Gauge 0.045" 0.065" 0.085" 0.125"	Total HR Pass Pass Pass Pass	Peak HR Pass Pass Pass Pass	NBS Pass Pass Pass Pass
Flammability 60 Second Vertical Burn	FAR 25.853 (a) Appendix F, Part 1, (a)(i)	Gauge 0.045" 0.065" 0.085" 0.125"	After Flame Pass Pass Pass Pass	Burn Length Pass Pass Pass Pass )	Dripping Pass Pass Pass Pass

<sup>1</sup> OSU Heat Release and NBS Smoke results are an average of 60 samples tested for each gauge.