

# Sylodyn® GC Series Material Data Sheet



**Material** Closed cellular polyurethane  
**Color** black

## Standard dimensions

Thickness: 25 mm (according to ISO 3302-1 class EC3)  
Rolls: 1.5 m wide, 5.0 m long  
Sheets: max. 1.5 m wide, up to 5.0 m long

Material properties	Test method based on	Units	Sylodyn® GC 20	Sylodyn® GC 23	Sylodyn® GC 37	Sylodyn® GC 49
Density	ASTM D3574 Test A	lb/ ft <sup>3</sup> (kg/m <sup>3</sup> )	22 (350)	28 (450)	39 (620)	48 (760)
Tolerance			± 10%			
Compression force	ASTM D3574 Test C modified with load reported at 25% compression held for 5min on a level horizontal plate without holes	psi (kPa)	18 (12-23)	29 (20-38)	72 (50-94)	130 (91-169)
Typical (range)			124 (83-159)	200 (138-262)	496 (345-648)	896 (627-1165)
Hardness, typical	ASTM D2240 measured on skived surface	Shore A	14	23	37	49
Tolerance			± 5			
Compression set	ASTM D3574 Test D 25mm x 25mm x 12mm specimens 50% compression, 22 hours at 73.4°F (23°C)	%	0.8 (4)	0.8 (4)	0.5 (3)	0.5 (3)
Typical (max.)						
Tensile strength	ASTM D3574 Test E	psi (kPa)	116 (90)	190 (145)	320 (220)	460 (320)
Typical (min.)			800 (620)	1310 (1000)	2206 (1500)	3172 (2172)
Elongation at break	ASTM D3574 Test E	%	320 (250)	350 (250)	350 (250)	350 (250)
Typical (min)						
Tear resistance	ASTM D3574 Test F	lbf/in (kN/m)	6.0 (4.5)	8.5 (5.5)	11.0 (7.5)	15.0 (10)
Typical (min)*			1.1 (0.8)	1.5 (1.0)	1.9 (1.3)	2.6 (1.8)
Flame resistance	UL94		HBF	HBF	HBF	HBF
Gasketing and sealing	UL JMST2, UL50E		Pass	Pass	Pass	Pass

\*ASTM D624 Die C test results available upon request

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