

BASF Polyurethanes

Global Business Management Cellasto®

Material Specification: Cellasto® MHSP



Table 1: Test Block Properties

	Material Property	Test Method	Unit	Specification								
1.	Density	DIN EN ISO 845 ASTM D 3574-A ISO 1855	kg/m³	270 ± 25	300 ± 25	350 ± 25	400 ± 25	450 ± 25	500 ± 25	550 ± 25	600 ± 25	650 ± 25
2.	Tensile Strength	DIN EN ISO 1798 ASTM D 3574-E ISO 1798	N/mm²	≥ 2,0	≥ 2,3	≥ 2,5	≥ 3,3	≥ 3,8	≥ 4,5	≥ 5,3	≥ 5,8	≥ 6,1
3.	Elongation at Break	DIN EN ISO 1798 ASTM D3574-E ISO 1798	%	≥ 300	≥ 300	≥ 330	≥ 330	≥ 400	≥ 400	≥ 400	≥ 400	≥ 400
4.	Tear Resistance	DIN ISO 34-1 Bb ASTM D624 C ISO 34-4 Bb	kN/m	≥ 6,0	≥ 6,5	≥ 8,0	≥ 11,5	≥ 12,0	≥ 16,0	≥ 18,0	≥ 19,0	≥ 19,0
5.1.	Compression Set (40x40x30 mm) 50 % Compression 22h / 70°C	DIN EN ISO 1856 A ASTM D3574 D ISO 1856 A	%	≤ 6,0	≤ 7,0	≤ 7,0	≤ 8,0	≤ 8,0	≤ 8,0	≤ 8,0	≤ 8,0	≤ 8,0
5.2.	Compression Set (40x40x30 mm) 40 % Compression 22h / 80°C / 2h/23°C	Based on: DIN EN ISO 1856 ASTM D3574 D ISO 1856	%	≤ 20,0	≤ 22,0	≤ 22,0	≤ 22,0	≤ 22,0	≤ 25,0	≤ 28,0	≤ 28,0	≤ 28,0

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	Material Property	Test Method	Unit	Specification
1.	Density	DIN EN ISO 845 ASTM D 3574-A ISO 1855	kg/m ³	270 - 650
6.1.	Liquid storage (water) Change Tensile strength; 7 d / 70 °C	DIN 53428-F ASTM D471 ISO 1817	%	≤ 10
6.2.	Liquid storage (water) Change Elongation at Break; 7 d / 70 °C	DIN 53428-F ASTM D471 ISO 1817	%	≤ 10
7.1.	Heat aging Change Tensile strength; 70 h / 100 °C	DIN EN ISO 2440 ASTM D573 ISO 2440	%	≤ 10
7.2.	Heat aging Change Elongation at Break; 70 h / 100 °C	DIN EN ISO 2440 ASTM D573 ISO 2440	%	≤ 10
8.1.	Liquid storage (Oil IRM901) Change Tensile strength; 70 h / 100 °C	DIN 53428-F ASTM D471 ISO 1817	%	≤ 10
8.2.	Liquid storage (Oil IRM901) Change Elongation at Break; 70 h / 100 °C	DIN 53428-F ASTM D471 ISO 1817	%	≤ 10
9.1.	Liquid storage (Oil IRM903) Change Tensile strength; 70 h / 100 °C	DIN 53428-F ASTM D471 ISO 1817	%	≤ 10
9.2.	Liquid storage (Oil IRM903) Change Elongation at Break; 70 h / 100 °C	DIN 53428-F ASTM D471 ISO 1817	%	≤ 10