



STS Alvis, Ltd

Mechanical characteristics of some brands of caprolon developed and released by STS Alvis, Ltd

Characteristics	Caprolon (pure)	Caprolon-42 (graphitefilled)
Density, g/cm ³	1,16	1,17-1,18
Breaking point at stretching, MPa	80-100	77-97
Relative lengthening at a gap, %	15-30	10-20
Tension at compression deformation 25%, MPa	120-135	125-140
Hardness on cave-in of a ball, MPa	>105	>105
Impact strength, кДж/м ² on samples without cut	*	*
Friction coefficient on steel	0,15-0,2	0,10-0,15
Temperature coefficient of linear expansion	0,000076	0,000064
at a temperature -50°C	0,000118	0,000100
at a temperature +100°C		
Specific volume electric resistance, Ом·см	10 ¹² ÷10 ¹⁵	>10 ¹²

* Samples have not crushed at test

All data cited above have fact-finding character, are intended for comparison of materials at their choice. The responsibility for testing of materials for operation in concrete conditions, suitability of materials for concrete application is born by the Customer.

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