H.A. SPRINGER GMBH
AN ILLINOIS TOOL WORKS COMPANY

PROPERTIES **EPOCAST 36** (see IKP reports 563/1 and M 802 - Techn. University Stuttgart)

	Norm	Dimension	EPOCAST 36	Special Test Conditions
Compressive Modulus of Elasticity	ASTM D 695	N/mm^2	5610	
Compressive Yield Strength	ASTM D 695	N/mm^2	131	
Compressive Strength	ASTM D 695	N/mm^2	164 ; - 50 ° C → 196 ; + 80 ° C → 123	
Compressive Strain a Rupture	ASTM D 695	%	11,8	
Tensile Strength at Break	ASTM D 638	N/mm^2	49,4	
Percentage Elongation at Rupture	ASTM D638	%	0,9	
Izod Impact	ASTM D 256	J/m	17,2	
Barcol hardness	ASTM D 2583	-	55	
Thermal Expansion linear	-	K^{-1}	$31,0x10^{-6}$ $43,8x10^{-6}$	- 50 ° C - +/- 0 ° C +/- 0 ° C - + 60 ° C
Elastic Shear Modulus	-	N/mm^2	2360	
Logarithmic Decrement	DIN 53445 (ASTM D 2236)	-	0,043	
Dielectric Strength	DIN 53481 (ASTM D 149)	kV/mm	18,8	
Insulation DC-Resistance	DIN 53482 (ASTM D 257)	x cm	$3,7 \times 10^{15}$ $3,7 \times 10^{15}$	100 V 1000 V
Surface DC-Resistance	DIN 53482 (ASTM D 257)		$5,3 \times 10^{11}$ $1,3 \times 10^{13}$	100 V 1000 V
Friction Coefficient	-	-	0,57	Starting Value
Flexual Strength	ASTM D 790	N/mm^2	113 95 99 82 81 53	- 30 ° C +/- 0 ° C + 23 ° C + 50 ° C + 70 ° C + 100 ° C
Maximum Strain	ASTM D 790	%	1,6 1,5 1,9 1,9 2,5 3,1	- 30 ° C +/- 0 ° C + 23 ° C + 50 ° C + 70 ° C + 100 ° C

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	Norm	Dimension	EPOCAST 36	Special Test Conditions
Deformation under Load	ASTM D 621	% / mm	0,02 0,003	- 30°C Load 550 N
			0,04 0,005	„ 1100 N
			0,06 0,007	„ 2230 N
			0,09 0,011	„ 4450 N
			0,02 0,003	Load 550 N
			0,04 0,005	+/- 0°C „ 1110 N
			0,07 0,009	„ 2230 N
			0,11 0,014	„ 4450 N
			0,04 0,005	Load 550 N
			0,05 0,006	+ 23°C „ 1110 N
			0,10 0,013	„ 2230 N
			0,19 0,024	„ 4450 N
			0,07 0,009	Load 550 N
			0,09 0,011	+ 50°C „ 1110 N
			0,13 0,016	„ 2230 N
			0,23 0,029	„ 4450 N
			0,10 0,013	Load 550 N
			0,13 0,016	+ 70°C „ 1110 N
			0,15 0,020	„ 2230 N
			0,23 0,030	„ 4450 N
			0,13 0,016	Load 550 N
			0,15 0,019	+ 100°C „ 1110 N
			0,17 0,021	„ 2230 N
			0,32 0,040	„ 4450 N
Pulsating Compressive Test	-	-		Test Frequenz 10 Hz Lower Load 7 N/mm ^{2}
			Pulsation of Load	Upper Load N/mm ^{2}
			$7{,}5 \times 10^6$	590
			$7{,}5 \times 10^6$	620
			$7{,}5 \times 10^6$	650
			$6{,}0 \times 10^6$	680
			1364	680
			$6{,}0 \times 10^6$	680
			$6{,}0 \times 10^6$	745
			445	745
Linear Shrinkage during Cure	ASTM D 2566	cm/cm	0,0015	
Pot life			at 25°C	30 min.
			at 50°C	10 min.
Cure Time for Various Cure - Temperatures			47 h	Ambient Temp. 13°C
			48 h	16°C
			28 h	21°C
Flammability of Self-Supporting Plastics	ASTM D 635		ATB 160 s AEB 20 mm	

NOTE: THE PHYSICAL PROPERTIES QUOTED ABOVE ARE TAKEN FROM LABORATORY PREPARED SPECIMENS. TESTS ON SPECIEMENS FROM A JOB SITE MAY NOT BE IDENTICAL.