



**CUT TO SIZE
plastics**

NSW: Cnr. Dursley & Fairfield Rds.
Yennora NSW 2161 Australia

QLD: Unit 1 & 2, 33 Stockwell Place.
Archerfield QLD 4108 Australia

Mail: PO Box 910 Fairfield NSW 1860

ABN: 73 001 909 673

p: +61 2 9681 0400
f: +61 2 9681 0450
e: sales@cutoffsize.com.au

p: +61 7 3276 6700
f: +61 7 3276 6799
e: qld@cutoffsize.com.au

www.cutoffsize.com.au

Mechanical properties	Standard	Unit	PA 6 G	Oilamid®	Calaumid®612	Calaumid®1200	PA 6	PA 66
Density	DIN 53 479	g/cm ³	1,15	1,14	1,12	1,03	1,14	1,14
Tensile strength (short duration)	DIN 53 455	MPa	80	80	80	60	70	85
Modulus of elasticity in flexure (short duration)	DIN 53 457	MPa	3.4	2.8	2.8	2.2	2.5	2.9
Modulus of elasticity in tension (short duration)	DIN 53 457	MPa	3.1	2.5	2.3	2.4	2.7	3
Bending strength	DIN 53 452	MPa	140	135	135	90	130	135
Impact strength	DIN 53 453	kJ/m ²	n.B.	n.B.	n.B.	n. B.	n.B.	n. B.
Notch impact strength	DIN 53 453	kJ/m ²	> 4	> 5	>12	>15	>3	>3
Ball indentation hardness H _{358/30}	DIN 53 456	MPa	160	140	140	100	160	170
Sliding friction coefficient (dry run) 1)	-	-	0,36	0,18	0,36	0,40	0,38	0,35
Thermal properties								
Melting temperature	-	°C	220	220	195	190	218	265
Coefficient of linear expansion 2)	DIN VDE 0304	10 ⁻⁵ . K ⁻¹	7-8	7-8	7-8	10-11	8-9	9-10
Service temperature range 3)	-	°C	-40 to 105	-40 to 105	-40 to 105	-60 to 110	-60 to 100	-30 to 100
Max. Service temperature range 4)	-	°C	170	160	160	150	140	150
Thermal conductivity	DIN 52 612	W/(K.m)	0,23	0,23	0,23	0,23	0,23	0,23



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Water absorption								
Moisture absorption 5) (maximum)	DIN 53 715	%	2,2	1,8	1,9	0,9	3,0	2,5
Moisture absorption 6) (saturated)	DIN 53 495	%	6,5	5,5	5,8	1,4	10,0	9,0

- 1) against steel, hardened and ground P = 0.05 Mpa V = 0.6 m/sec t = 40 °C near sliding surface
- 2) for the temperature range from + 23°C to + 60°C
- 3) Empirical values with finished components without load in air, depending on type and form of heat application, long term (= months)
- 4) Empirical values with finished components without load in air, depending on type and form of heat application, short term (= max. 1 h)
- 5) In normal ambient conditions 23 °C / 50 % RH
- 6) In water 1 MPa = 1 N/mm2 n. b. = non breaking

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For the most recent technical data and free application advice, please call Cut To Size Plastics on: (02) 9681 0400.