

KESTAMID® GROUP TECHNICAL VALUES

	Test Method ISO	Unit	KESTAMID®	KESTOIL®	KESTLUB®	KESTAMID HS®	KESTAMID GRF®
General Properties							
Color			Yellow	Green	Red	Blue	Dark Grey
Density	1183	gr/cm ³	1.15	1.14	1.15	1.15	1.15
Water Absorption (saturation in water of 23°C)	62	%	7	5	5	6	5
Mechanical Properties							
Tensile Strength at Break	527	Kg/cm ²	850	750	800	800	750
Tensile Modulus of Elasticity	527	Mpa	4000	4000	4000	4000	4100
Elongation at Break	527	%	>20	>30	>20	>20	>20
Compressive Stress	604	Kg/cm ²	950	950	950	950	1050
Compressive Modulus	604	MPa	2700	2500	2600	2700	3000
Impact Strength (Charpy, unnotched)	179	Kj/m ²	No break	No break	No break	No break	No break
Impact Strength (Izod, notched)	180	Kj/m ²	5.6	6	6	5.6	5
Coefficient of Friction, Dynamic			0.39	0.15	0.08	0.39	0.15
Hardness	868	Shore D	84	83	84	84	85
Wear resistance		mg/km	0.44	0.11	0.02	0.44	0.20
K Factor		mm ³ /Nm	5.0x10 ⁻⁶	1.2x10 ⁻⁶	0.25x10 ⁻⁶	5.0x10 ⁻⁶	1.2x10 ⁻⁶
Thermal Properties							
Melting Temperature		°C	220	220	220	220	220
Maximum Allowable Service Temperature in Air – Continuous		°C	110	110	110	125	115
Maximum Allowable Service Temperature in air – Short term		°C	170	170	170	185	175
Coefficient of Linear Thermal Expansion	11359	°C ⁻¹	8x10 ⁻⁵	8x10 ⁻⁵	8x10 ⁻⁵	8x10 ⁻⁵	8x10 ⁻⁵
Electrical Properties							
Dielectric Coefficient	60250		3.7	3.7	3.7	3.7	
Electric Strength	60243	kV/mm	25	25	25	25	
Volume Resistivity	60093	Ω.cm	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	
Surface Resistivity	60093	Ω	>10 ¹³	>10 ¹³	>10 ¹³	>10 ¹³	

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