4KTEC®
COMPOUNDS BY KORRELS

KIJK VOOR MEER INFORMATIE OP WWW.KORRELS.NL OF BEL MET (038) 447 93 25

			PA 6 / PA 66																		PPH				PPC				PBT				PC		ABS		POM	BLENDS				
PROPERTY	METHOD	UNIT	PA, unfilled	PA, unfilled, MoS_2, modified	PA, unfilled, flame retardant, natural	PA, Impact modified	PA, high impact modified, natural	PA, 10% glass fiber reinforced, natural	PA, 10% carbon fiber reinforced, black	PA, 15% glass fiber reinforced, heatstabilized, natural	PA, 20% glass fiber reinforced, heat stabilized, natural	PA,25% glass fiber reinforced, heatstabilized, natural	PA, 30% glass bead reinforced	PA, 30% glass fiber reinforced impact modified	PA, 30% glass bead reinforced heat stabilized natural	PA, 30% glass fiber / glass bead reinforced, natural	PA, 30% glass fiber reinforced, flame retardant, natural	PA, 30% glass fiber reinforced, hydrolysis, natural	PA, 40% glass fiber / mineral reinforced, natural	PA, 50% glass fiber reinforced, impact modified, natural	PPH, talc filled	PPH, glass fiber reinforced	PPH, glass fiber / glass bead reinforced	PPH, glass fiber reinforced, flame retardant	PPC, talc filled	PPC, glass bead reinforced	PPC, glass fiber reinforced	PPC, glass fiber reinforced, flame redardant	PBT, unfilled, impact modified	PBT, glass fiber reinforced	PBT, unfilled, flame retardant	PBT, glass fiber reinforced, flame retardant	PC, glass fiber reinforced	PC, glass fiber reinforced, flame retardant	ABS, glass fiber reinforced	ABS, glass fiber reinforced, flame retardant	POM, glass fiber reinforced, heat stabilized	ABS / PC unfilled, UV stabilized	ABS / PA, glass fiber reinforced	PC / ABS, glass fiber reinforced	PC / ABS, unfilled, flame retardant	PBT / PET glass fiber reinforced, heat stabilized
GENERAL																																										
Density		ISO 1183	1.12-1.14	1.12-1.14	1.17-1.20	1.03 - 1.06	1.01-1.05	1.18-1.21	1.13-1.15	1.22-1.24	1.26-1.28	1.31-1.33	1.35 - 1.37	1.29-1.32	1.35-1.37	1.35-1.37	1.60-1.63	1.35-1.37	1.45-1.47	1.53-1.55	0.96-1.28	0.95-1.22	1.11-1.14	1.25-1.30	1.04-1.27	1.11-1.14	0.96 -1.30	1.15 -1.20	1.22-1.32	1.35-1.73	1.38-1.40	1.55-1.66	1.24-1.42	1.27-1.30	1.20-1.25	1.20-1.25	1.53 -1.65	1.13-1.15	1.17-1.22	1.18-1.26	1.17-1.19	1.45-1.47
Molding Shrinkage	Parallel / Normal	ISO 294-4	1.2-1.6	1.2-1.3	0.4-1.13	1.4-1.6	1.7	0.3-0.6	0.4-1.1	0.5	0.2-0.45	0.2-0.4	0.4-0.6	0.2-0.4	0.5	0.4	0.2-0.8	0.1-0.3	0.3-0.8	0.05-0.2									1.6-2.0	0.6-1.1	1.5	0.4-1.1	0.3-0.4	0.3-0.5	0.5	0.2-0.4	0.7-1					
MECHANICAL																																										
Tensile Stress at Break	23 °C	ISO 527-2			70-80		40-50	90-120	90-110										90-110	190-200	25-30	40-100	60-70	70-80	20-30	10-20	10-85	40-50		90-150	35-45	100-125	70-130	70-80	50-65	30-40	95-130	50-53	70-80	70-75	55-60	115-125
Tensile Strain at Break	23 °C	ISO 527-2						3-4	3-4											2-3	> 5	>2	>3	>10	>10	>50	>2			2-4		2-3	2-5	3-4		2-4		4.5	4.5			
Tensile Modulus	23 °C	ISO 527-2	1500-3250	2750-3250	3500-4000	1500-1800	1300-1600	4500-5000	7000-8000	5500-6500	6500-7500	7500-8500	5000-5800	7500-8000	4000-5000	6500-7500	8500-9500	10000-11000	7500-8500	13000-14000	1500-3000	2500-8000	4000-5000	6500-7500	1000-3500	1000-1500	1000-8000	3000-4000	1500-2500	3500-9500	2000-3000	7000-9000	3000-9000	3000-4000	4000-5000	2000-3000	7000-10000	2000-2500	4500-5000	3500-6000	2000-25000	8000-9000
Izod Impact Strenght, notched	23 °C	ISO 180/A	5-8	6-8	4-5	45-80	80-85	08-11		6-8	8-10	8-11	6-8	20-25	5-6	6-8	8-10	11-13	5-7	18-20	3-8	5-12	8-10	2-4	>4	4-6	4-25	15-25	6-15	6-15	5-9	8-11	8-15	10-12	5-6	9-11	4-7		8-12	9-20	40-60	5-6
THERMAL																																										
Melting Temperature	10 K / min	ISO 11357	220 - 225	220-225	260-265	220-225	255-265	220-225	220-225	260-265	260-265	260-265	220-225	260-265	260-265	260-265	260-265	260-265	220-225	220-225	165-170	165-170	165-170	165-170	160-165	160-165	160-165	160-165	225	225	225	225	140	140			190-230	240-270	230-250	230-260	250-280	225-255
Heat Deflection Temperature	0,45 MPa	ISO 75	170	180	225			210	200	250	255	260	200	250	210	260	250	260		210										205	165	220	135	130					101			
Heat Deflection Temperature	1,80 MPa	ISO 75	65	65	85	50	60	185	205	245	245	250	90	240	90	250	245	255	180	210	70	110	145	70	65	60	120	90	50-60	200-215	60	200	145	140			160	108		120	114	210
Vicat Softening Temperature	50 N	ISO 306	200	200	245					250	250	255		235	245	250		255																								