

TECHNICAL DATASHEET EKOBOARD Virgin



			LDPE-P	PE300	PP-C	PP-H
			LDPE Virgin	HDPE Virgin	PP-Copolymer Virgin	PP-Homopolymer Virgin
MECHANICAL PROPERTIES (at 23°C)						
E-modulus	DIN 53457	N/mm ²	200	1050	1300	1450
Tensile strength	DIN 53455	N/mm ²	11	27	28	31
Elongation at break	DIN 53455	%	300	>400	>400	>400
Impact strength, Charpy unnotched 23°C	DIN 53453	kJ/m ²	no break	no break	no break	no break
Impact strength, Charpy notched 23°C	DIN 53453	kJ/m ²	no break	15	30	5
Coefficient of friction vs. steel (dry)	-	-	0,3	0,15	0,2	0,2
Hardness	DIN 53505	shore D	45	62	66	70
Density	DIN 53479	kg/m ³	940	960	920	920
Absorption of moisture	DIN 53495	%	< 0,03	< 0,03	< 0,03	< 0,03
Fire test	DIN 4102	-	B2	B2	B2	B2
THERMAL PROPERTIES						
Softening temperature, vicat A/50 (10N)	DIN 53460	°C	110	130	147	150
Min./max. service temperature	-	°C	-20 up to 70	-20 up to 80	-10 up to 95	-10 up to 100
Linear expansion	DIN 53752	mm/m/10°C	2	1,8	1,6	1,6
Coefficient of heat conductivity	DIN 52612	W/m.K	0,35	0,4	0,22	0,22
ELECTRICAL PROPERTIES						
Breakdown voltage	DIN 53481	kV/mm	> 60	> 60	> 60	> 60
Volume resistance	DIN 53482	Ohm	> 10 ¹³	> 10 ¹³	> 10 ¹³	> 10 ¹³
Diëlectric constant value	DIN 53483	-	2,4	2,4	2,25	2,25
CHEMICAL AND PHYSICAL RESISTANCE						

The chemical and physical resistance of these products to acids, leyes and salt solutions, is generally spoken very good.
In special cases, please contact us, especially for solvents.