

Datasheet

KEP RD

KEP RD insulation plates are build up of temperature resisted thermoset plastic filled with non-organic reinforcements. At high temperature they withstand to high stresses perpendicular to the panel surface in coincidence with high thermal insulation.

Special features

- High compressive strength perpendicular to sheet surface
- High temperature resistance
- Low thermal conductivity
- Low moisture absorbency
- Low specific weight

Applications

- Thermal insulation of moulds
- Liners of drying furnace
- Base sheet of conveyer systems

Technical data

	Unit	ISO Standard	KEP RD1	KEP RD2	KEP RD3	KEP RD4	KEP RD5	KEP RD6
Colour			dark green	yellow	brown	white	green	metal
Specific Gravity	g/cm ³	R 1183	1,85	1,85	2,00	1,50	2,10	2.15
Compressive strength \perp to sheet surface at RT	N/mm ²	R 604	400	600	650	350	750	450
Compressive modulus \perp to sheet surface at RT	N/mm ²	R 604	12'500	18'000	18'000	10'000	22'000	--
Compressive strength \perp to sheet surface at 180 °C	N/mm ²	R 604	250	390	480	130	550	330
Short time maximum temperature resistance	°C		300	350	400	300	400	600
Long term temperature resistance	°C	IEC 60216	200	220	250	200	260	500
Thermal conductivity	W/mK		0,25	0,22	0,23	0,14	0,18	0.25
Moisture absorbency	%	R 62	< 0,5	< 0,1	< 0,2	< 0,2	< 0,1	< 0,5

Sheet size (Length x Width)	mm		2445 x 1255	2400 x 1220	2000 x 1100	2440 x 1220	2000 x 1120	1200 x 1000
Thickness Range	mm		7 to 25	4 to 25	6 to 25	5 to 25	6 to 25	5 to 25