



KAY-METZELER

KayCel Material Specification

Physical Property	EPS70	EPS100	EPS150	EPS200	EPS250	EPS300	EPS350	EPS400	EPS500	EPS70 SuperPlus	EPS100 SuperPlus
Declared Thermal Conductivity at 10°C (W/mK)	0.038	0.036	0.035	0.034	0.033	0.033	0.033	0.033	0.033	0.032	0.031
Long Term Compressive Strength at 2% or Less Deformation (kPa)	21	30	45	60	75	90	105	120	150	21	30
Material Design Strength for Long Term Compressive Strength at 2% or Less Deformation Over 50 Years (kPa)	19	27	40	54	68	81	95	109	136	19	27
Compressive Strength at 10% Compression (kPa)	70	100	150	200	250	300	350	400	500	70	100
Cross Breaking Strength (Bending Strength) (kPa)	115	150	200	250	350	450	525	600	750	115	150
Shear Strength Correlation (Kpa)	55	75	100	125	170	225	260	300	375	55	75
Water Vapour resistivity (MN.s.g-1 m-1)	100-200	150-350	150-350	200-500	200-500	200-500	200-500	200-500	200-500	100-200	150-350
Fire Classification	NPD / Euroclass E Available on Request	NPD / Euroclass E Available on Request	NPD / Euroclass E Available on Request	NPD / Euroclass E Available on Request	NPD / Euroclass E Available on Request	NPD / Euroclass E Available on Request	NPD	NPD	NPD	Euroclass E	Euroclass E
Water Absorption	<=10%	<=10%	<=10%	<=10%	<=10%	<=10%	<=10%	<=10%	<=10%	<=10%	<=10%
Nominal Density (kg/m3)	15	20	25	30	35	40	45	50	55	16.5	20
Ozone Depletion Potential (ODP)	0	0	0	0	0	0	0	0	0	0	0
Global Warming Potential (GWP)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Green Guide Rating	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+

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