

TECHNICAL DATA SHEET

Pentacore PET - PolyCore ZS Series



	UNIT	PET60	PET80	PET100	PET150	PET200	PET250	PET300	STANDARD
Nominal Density	kg/m ³	60	80	100	150	200	250	300	ISO 845
	lb/ft ³	3.75	5.00	6.24	9.36	12.49	15.61	18.73	
Typical Density Range	kg/m ³	55-65	75-85	95-105	145-155	190-210	240-260	290-310	ISO 845
	lb/ft ³	3.43-4.06	4.68-5.31	5.93-6.55	9.05-9.68	11.86-13.11	14.98-16.23	18.11-19.36	
Compression Strength	MPa	0.80	1.10	1.40	2.80	4.40	5.70	6.90	ISO 844
	Psi	116	159	203	406	638	826	1000	
Compressive Modulus	MPa	75	100	110	190	300	340	420	ISO 844
	Psi	10,877	14,503	15,954	27,557	43,511	49,313	60,914	
Shear Strength 0°	MPa	0.50	0.68	0.80	1.25	1.80	2.30	2.45	ASTM C-273
	Psi	72	98	116	181	261	333	355	
Shear Modulus 0°	MPa	9	20	25	50	70	95	120	ASTM C-273
	Psi	1,305	2,900	3,625	7,251	10,151	13,778	17,404	
Shear Strength 90°	MPa	0.50	0.65	0.75	1.15	1.75	2.20	2.35	ASTM C-273
	Psi	72	94	108	166	253	319	340	
Shear Modulus 90°	MPa	7	18	23	45	65	85	100	ASTM C-273
	Psi	1,015	2,610	3,335	6,526	9,427	12,328	14,503	
Shear Elongation	%	25%	15%	15%	5%	3%	2%	2%	ASTM C-273
Tensile Strength	MPa	1.30	1.50	1.70	2.10	2.40	2.70	3.60	ASTM D-1623
	Psi	188	217	246	304	348	391	522	
Tensile Modulus	MPa	70	100	110	200	240	320	420	ASTM D-1623
	Psi	10,152	14,503	15,954	29,007	34,809	46,412	60,914	
Thermal Conductivity	W/(m·K)	0.033	0.027	0.027	0.031	0.037	0.047	0.053	EN 12667
	BTU/(hr·ft·°F)	0.01907	0.01561	0.01561	0.01791	0.02138	0.02716	0.03062	
Fire Properties	Class	FMVSS 302 Finished Panel	FMVSS 302 Finished Panel	FMVSS 302 Finished Panel	FMVSS 302 Finished Panel	FMVSS 302 Finished Panel	FMVSS 302 Finished Panel	FMVSS 302 Finished Panel	EN 13501-1

Disclaimer: Information shown in this comparison sheet is derived from publicly available technical data supplied by various manufacturers. Values are typical and may vary based on processing conditions, resin systems, density tolerances, and test methods. Pentacore US does not guarantee external data accuracy. Users should conduct their own testing to verify suitability for specific applications. Pentacore US reserves the right to update data without notice.

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www.pentacore.us · 1701 W Franklin St, Elkhart IN · (574) 378-7868