

# KAOFULEX POLYSTYRENE

## GPPS / HIPS PROPERTY DATA SHEET

	PROPERTY	UNIT	TESTING METHOD	GPPS				HIPS						
				525	525N	550N	550P	800	800F	850R	850S	850	851	890
PHYSICAL PROPERTIES	SPECIFIC GRAVITY	23/23°C	ASTM D 792	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.17
	MELT FLOW RATE	G/10MIN	ASTM D 1238	7.0	7.5	4.5	2.0	8.0	8.0	7.0	4.0	6.0	2.5	9.0
MECHANICAL PROPERTIES	TENSILE PROPERTIES	TENSILE STRENGTH	kg/cm <sup>2</sup> ASTM D 638	420	420	450	500	300	250	250	300	250	280	250
		ELONGATION	%	3	3	3	4	50	50	50	45	55	55	40
	FLEXURAL PROPERTIES	FLEXURAL STRENGTH	kg/cm <sup>2</sup> ASTM D 790	770	700	900	950	470	450	450	530	420	440	390
		FLEXURAL MODULUS	kg/cm <sup>2</sup>	30000	30000	31000	31000	23000	22000	22000	22000	22000	22000	22000
	IZOD IMPACT STRENGTH	kg.cm/cm	ASTM D 256	1.6	1.6	1.8	2.0	7.0	7.0	9.0	9.0	11.0	12.0	8.5
	FALLING DART	cm-kg	ASTM D 1709	---	---	---	---	80	80	100	120	170	170	80
	ROCKWELL HARDNESS	M/L SCALE	ASTM D 785	M-75	M-75	M-80	M-80	L-85	L-85	L-75	L-75	L-70	L-75	L-70
THERMAL PROPERTIES	ANNEALED H.D.T.	°C	ASTM D 648	87	86	90	96	87	87	87	89	85	90	80
	VICAT SOFTING TEMP.	°C	ASTM D 1525	97	96	100	106	97	97	97	99	95	100	92
FLAME RETARDANCE		FILE NO. E74014	UL94	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	V0 (1/8")
NOTES					NATURAL COLOR		EXTRUSION				HIGH GLOSS		EXTRUSION	FLAME RETARDANT

Remarks : The data are intended as a general guide only and necessarily represent results that may be obtained elsewhere.