

KAOFU CHEMICAL CORPORATION

KAOFULEX® HIPS (HIGH IMPACT POLYSTYRENE)

HIPS PROPERTY DATA SHEET

HIPS													
PROPERTY			UNIT	TESTING METHOD	HPS-800	HPS-800F	HPS-850R	HPS-850S	HPS-850	HPS-851	HPS-800R	HPS-850HG	HPS-890
PHYSICAL PROPERTIES	SPECIFIC GRAVITY		23/23°C	ASTM D 792	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.17
	MELT FLOW RATE		g/10min	ASTM D 1238	9.0	9.5	8.0	5.0	7.0	3.5	13.0	4.5	10.0
MECHANICAL PROPERTIES	TENSILE PROPERTIES	TENSILE STRENGTH	kg/cm²	ASTM D 638	300	280	280	300	250	280	220	300	200
		ELONGATION	%		45	45	50	30	55	55	30	30	40
		FLEXURAL STRENGTH	kg/cm²	ASTM D 790	430	420	400	430	400	400	350	450	300
		FLEXURAL MODULUS	kg/cm²		23000	22000	22000	22000	22000	22000	20000	23000	20000
	IZOD IMPACT STRENGTH		kg.cm/cm	ASTM D 256	7.5	7.0	9.0	9.0	11.0	12.5	9.5	10.0	9.5
	ROCKWELL HARDNESS		M/L SCALE	ASTM D 785	L-75	L-75	L-70	L-75	L-60	L-60	L-60	L-75	L-60
THERMAL PROPERTIES	ANNEALED H.D.T.		°C	ASTM D 648	85	85	87	88	85	87	82	88	80
	VICAT SOFTING TEMP.		°C	ASTM D 1525	95	95	97	98	95	97	91	98	90
OPTICAL PROPERTIES	GLOSSINESS 60°		GU	ASTM D523	70	70	60	75	60	50	60	92	
FLAME RETARDANCE				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")	V0 (1/8")
NOTES						FOOD GRADE		HEAT RETARDANT		EXTRUSION	HIGH FLOW	HIGH GLOSS	FLAMERETARDANT