

## Description

## GPPS PROPERTY DATA SHEET

	PROPERTY	UNIT	TESTING METHOD	GPPS						
				GPS-525HF	GPS-500	GPS-525N	GPS-525	GPS-550N	GPS-550	GPS-550P
PHYSICAL PROPERTIES	SPECIFIC GRAVITY	23/23°C	ASTM D 792	1.04	1.05	1.05	1.05	1.05	1.05	1.05
	MELT FLOW RATE	g/10min	ASTM D 1238	17.0	12.0	7.5	7.0	4.5	3.0	2.5
MECHANICAL PROPERTIES	TENSILE STRENGTH	kg/cm <sup>2</sup>	ASTM D 638	350	380	400	420	450	460	460
	TENSILE ELONGATION	%	D 638	3.0	3	3	3	4	4	4
	FLEXURAL STRENGTH	kg/cm <sup>2</sup>	ASTM D 790	500	570	680	700	800	840	860
	FLEXURAL MODULUS	kg/cm <sup>2</sup>	D 790	26000	28000	30000	30000	31000	32000	32000
	IZOD IMPACT STRENGTH	kg.cm/cm	ASTM D 256	1.3	1.4	1.6	1.6	1.8	2.0	2.0
THERMAL PROPERTIES	ROCKWELL HARDNESS	M/L SCALE	ASTM D 785	M-60	M-60	M-65	M-65	M-65	M-65	M-65
	ANNEALED H.D.T.	°C	ASTM D 648	75	82	87	89	93	95	95
	VICAT SOFTING TEMP.	°C	ASTM D 1525	86	92	97	99	103	105	105
OPTICAL PROPERTIES	GLOSSINESS 60°	GU	ASTM D523	--	--	--	--	--	--	--
	FLAME RETARDANCE		UL94	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")	HB (1/8")
	NOTES			High Flow	High Flow	Natural Color		CD-P	Injection	Extrusion

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

GRADE	CHARACTERISTICS	APPLICATION
	Excellent Moldability, High Flow	TPE Compound, Masterbatch
GPS-500	Light Blue, Excellent Clarity, Good Flow, High Flow, Low Volatility (below 600 ppm)	Housewares, Cosmetic case, Toys, Lamp-decoration, Drinking Cups, Stationery, Hanger
GPS-525N	Natural Color, Excellent Clarity, Good Flow, Low Volatility (below 600 ppm)	Housewares, Cosmetic case, Toys, Lamp-decoration, Drinking Cups, Stationery, Hanger
GPS-525	Light Blue, Excellent Clarity, Good Flow, Low Volatility (below 600 ppm)	Housewares, Cosmetic case, Toys, Lamp-decoration, Drinking Cups, Stationery, Hanger
GPS-550N	Heat Resistance, Low Volatility (below 600 ppm)	PC Peripheral Appliances, CD Case, Appliance Parts, Toys, Lamp-decoration, Drinking Cups
GPS-550	Heat Resistance, Low Volatility Injection Grade	OPS, PSP Products, Optics Plate, Appliance Parts, Toys, Lamp-decoration, Drinking Cups
GPS-550P	Heat Resistance, Low Volatility Extrusion Grade	OPS, PSP Products, Optics Plate, Appliance Parts, Toys, Lamp-decoration, Drinking Cups

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