PSJ-POLYSTYRENE
HIPS

	Test method	Test piece size	Test condition	Unit	Injection Grades							Extrusion Grades			
					High-flow	High-flow High-impact	High-modulus High-impact	High-gloss	High-gloss High-impact	High-gloss High-flow	Abrasion resistance	General	High-impact	Hyper gloss	Oil resistant Hyper impact
	ISO/JIS	mm		S.I.	AGI02	HT60	H9152	403R	H8672	408	H8765	475D	HT478	HG430	HX220
1.Rheorogy Properties															
Melt mass-flow rate	1133/K7210	pellets	200℃ 5kg f	g/10min	15	6.6	5.5	3.2	3.8	7.0	5.7	2.0	3.0	4.0	2.3
2.Physical Properties															
Tensile stress at yield	527-1/K7161	type A	50mm/min	MPa	25	27	35	41	34	36	35	32	33	38	20
Nominal tensile strain at break	527-1/K7161	type A	50mm/min	%	40	40	30	40	40	30	40	40	40	5	60
Flexual modulus	178/K7171	80×10×4	2mm/min	MPa	2200	2200	2600	2350	2200	2450	2500	2250	2050	2100	1500
Flexual strength	178/K7171	80×10×4	2mm/min	MPa	41	47	64	66	53	55	51	57	50	60	35
Charpy impact strength (Notched)	179/K7111	80×10×4	1eA	kJ/m²	10	12	12	15	19	12	12	16	15	3	20
3.Thermal Properties															
Deflection temperature under load	75-2/K7191	80×10×4	flatwise 1.8MPa	℃	68	71	77	78	75	75	73	75	75	73	71
Vicat softening temperature	306/K7206	10×10×4	50℃/h, 50N	℃	86	90	95	97	93	92	96	93	96	93	87
4.Another Properties															
Density	1183/K7112	80×10×4	A method	×10³ kg/m³	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Gloss	JIS Z8741	type A	60°	%	60	50	70	88	86	87	70	50	60	98	20
Rockwell hardness	2039-2/K7202-2	type A	L scale	–	55	60	75	70	65	70	70	65	50	65	10
5.Processing conditions															
Molding temperature	–	–	–	℃	200~260							200~260			
Drying temperature	–	–	–	℃	70~80							70~80			
Drying time	–	–	–	hour	0~4							0~4			

◆ 80×10×4(mm) and 10×10×4(mm)test pieces were cut from ISO type A test pieces.
◆ These values are representative values obtained based on established test methods, and are not standard values or guaranteed values.