



PSJ-POLYSTYRENE GPPS

					Injection Grades				Extrusion Grades					
	Test method	Test piece size	Test condition	Unit	General	High-flow	High heat-resistant	High-impact	General	High-flow	High heat-resistant	High melt tension		
	ISO/JIS	mm		S.I.	HF77	679	HH102 307R	SGP10	685	680	HH102 304	G9305	G9401	GX351
1.Rheology Properties														
Melt mass-flow rate	1133/K7210	pellets	200℃ 5kg f	g/10min	7.5	18	3.3	1.9	2.2	7.0	2.6	1.5	2.2	3.0
2.Physical Properties														
Tensile stress at break	527-1/K7161	type A	5mm/min	MPa	45	40	50	45	50	50	50	50	50	50
Tensile strain at break	527-1/K7161	type A	5mm/min	%	2	2	3	3	3	2	3	3	3	3
Flexual modulus	178/K7171	80×10×4	2mm/min	MPa	3150	3150	3200	3200	3250	3200	3250	3250	3250	3250
Flexual strength	178/K7171	80×10×4	2mm/min	MPa	85	75	100	95	100	95	100	105	100	105
Charpy impact strength (Notched)	179/K7111	80×10×4	1eA	kJ/m ²	1.7	1.5	2.2	2.8	2.3	1.6	2.2	2.7	2.3	2.3
3.Thermal Properties														
Deflection temperature under load	75-2/K7191	80×10×4	flatwise 1.8MPa	℃	76	70	80	75	82	78	82	82	82	82
Vicat softening temperature	306/K7206	10×10×4	50℃/h, 50N	℃	94	87	100	93	103	101	102	103	103	103
4.Another Properties														
Density	1183/K7112	80×10×4	A Method	×10 ³ kg/m ³	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Rockwell hardness	2039-2/7202-2	typeA	M scale	-	80	80	80	80	85	80	85	85	85	85
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.