



PSJ-POLYSTYRENE GPPS

	Test method	Test piece size	Test condition	unit	General	High Flow	High Strength	P S P	
	ISO	mm		S. I.	HF77	679	SGP10	G9401	G9305
1. Rheology Properties									
Melt mass flow rate	1133	pellets	200°C 5kg f	g/10min	7.5	18	1.9	2.2	1.5
Melt volume flow rate	1133	pellets	200°C 5kg f	cm ³ /10min	7.8	19	2.0	2.4	1.6
2. Physical Properties									
Tensile Stress at Yield	527-1	type A	5mm/min	MPa	45	40	45	50	50
Nominal tensile strain at break	527-1	type A	5mm/min	%	2	2	3	3	3
Flexual Modulus	178	80×10×4	2mm/min		3300	3300	3300	3300	3300
Flexual Strength	178	80×10×4	2mm/min	MPa	95	80	95	100	105
Charpy Impact Strength (Notched)	179	80×10×4	1eA	kJ/m ²	1.9	1.5	2.6	1.7	2.7
Charpy Impact Strength	179	80×10×4	1eU	kJ/m ²	13	10	20	14	19
3. Thermal Properties									
Deflection temperature under load	75-2	80×10×4	flatwise 1.8MPa	°C	76	70	77	83	82
Vicat Softening Temp.	306	10×10×4	50°C/h, 50N	°C	94	87	93	103	103
4. Another Properties									
Density	1183	80×10×4	A Method	kg/m ³	1050	1050	1050	1050	1050
Ball Pressure Temp.		t=3mm	-	°C	85	75	85	—	*95
Rockwell Hardness	2039-2	typeA	M scale	—	84	83	83	84	84

● The data in this report are typical examples of values measured at specific conditions.