



# PSJ-POLYSTYRENE HIPS

	Test method	Test piece size	Test condition	unit	High Impact	High Gloss	High Gloss	Extrusion		
					High Modulus		High Impact	475D	H0103	HT478
	ISO	mm		S. I.	H9152	408	H8672			
1. Rheology Properties										
Melt mass flow rate	1133	pellets	200°C 5kg f	g/10min	5.5	7.0	4.0	2.0	2.6	3.0
Melt volume flow rate	1133	pellets	200°C 5kg f	cm <sup>3</sup> /10min	5.7	7.3	4.1	2.1	2.8	3.1
2. Physical Properties										
Tensile Stress at Yield	527-1	type A	50mm/min	MPa	35	33	32	30	31	33
Nominal tensile strain at break	527-1	type A	50mm/min	%	40	40	30	50	30	30
Flexual Modulus	178	80×10×4	2mm/min	MPa	2600	2450	2200	2250	2050	2050
Flexual Strength	178	80×10×4	2mm/min	MPa	64	55	53	57	50	50
Charpy Impact Strength (Notched)	179	80×10×4	1eA	kJ/m <sup>2</sup>	12	10	17	14	16	15
3. Thermal Properties										
Deflection temperature under load	75-2	80×10×4	flatwise 1.8MPa	°C	77	75	75	75	74	75
Vicat Softening Temp.	306	10×10×4	50°C/h, 50N	°C	95	92	91	93	94	96
4. Another Properties										
Density	1183	80×10×4	A method	kg/m <sup>3</sup>	1040	1040	1040	1040	1040	1040
Ball Pressure Temp.		t=3mm	—	°C	90	85	90	85	*90	*90
Gloss	JIS Z8741	type A	60°	%	70	85	85	50	83	60
Rockwell Hardness	2039-2	type A	L scale	—	75	70	65	65	50	50

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