

			Injection molding					
			Standard	Heat resisting	High Strength	Strength & Rigidity	Medium flow	High flow
			H450	H650	H830	H350	H700	H610
Melt mass-flow rate	ISO 1133	g/10min	5.5	3.4	1.9	8.0	11	16
Vicat softening temperature (load 50N)	ISO 306	°C	92	96	94	88	90	81
Heat deflection temperature under 1.8MPa load	ISO 75-2	°C	73	75	73	70	71	65
Charpy impact strength (notched)	ISO 179	kJ/m ²	10	11	15	8	10	10
Tensile stress at yield	ISO 527-1	MPa	30	32	28	30	25	23
Tensile strain at break	ISO 527-1	%	45	45	57	45	50	40
Flexural strength	ISO 178	MPa	55	58	48	50	44	40
Flexural modulus	ISO 178	MPa	2450	2300	1950	2500	2150	2200
Surface gloss	JIS K 7105	%	-	-	-	-	-	-
Ball pressure test	ICE 60695-10-2	°C	85	90	-	80	80	75
Flammability (UL94 Classification)	UL94	-	HB	HB	-	HB	HB	HB

			Injection molding		Extrusion
			High gloss	High-performance	Standard
			H485	XL1	E640N
Melt mass-flow rate	ISO 1133	g/10min	4.0	2.6	2.7
Vicat softening temperature (load 50N)	ISO 306	°C	96	94	94
Heat deflection temperature under 1.8MPa load	ISO 75-2	°C	75	73	73
Charpy impact strength (notched)	ISO 179	kJ/m ²	12	17	11
Tensile stress at yield	ISO 527-1	MPa	37	36	30
Tensile strain at break	ISO 527-1	%	40	20	50
Flexural strength	ISO 178	MPa	60	56	53
Flexural modulus	ISO 178	MPa	2350	2200	2200
Surface gloss	JIS K 7105	%	92	99	64
Ball pressure test	ICE 60695-10-2	°C	90	-	-
Flammability (UL94 Classification)	UL94	-	HB	HB	-

TOYO STYRENE HIPS

※All values and information shown above are subject to revision without notice, they are given here for reference only, and not as guaranteed values.