

			Injection molding						Extrusion
			Strength & Rigidity	High gloss	High gloss	Heat resisting	Medium flow	High Strength	Standard
			H350	H485	H487	H650	H700	H830	E640N
Melt mass-flow rate	ISO 1133	g/10min	8.0	4.0	4.1	3.4	11	1.9	2.7
Vicat softening temperature (load 50N)	ISO 306	°C	88	96	93	96	90	94	94
Heat deflection temperature under 1.8MPa load	ISO 75-2	°C	70	75	72	75	71	73	73
Charpy impact strength (notched)	ISO 179	kJ/m ²	8	12	13	11	10	15	11
Tensile stress at yield	ISO 527-1	MPa	30	37	32	32	25	28	30
Tensile strain at break	ISO 527-1	%	45	40	42	45	50	57	50
Flexural strength	ISO 178	MPa	50	60	51	58	44	48	53
Flexural modulus	ISO 178	MPa	2500	2350	2200	2300	2150	1950	2200
Surface gloss	JIS K 7105	%	-	92	89	-	-	-	64
Ball pressure test	ICE 60695-10-2	°C	80	90	85	90	80	-	-
Flammability (UL94 Classification)	UL94	-	HB	HB	HB	HB	HB	-	-

			Injection molding
			High-performance
			XL4
Melt mass-flow rate	ISO 1133	g/10min	2.6
Vicat softening temperature (load 50N)	ISO 306	°C	94
Heat deflection temperature under 1.8MPa load	ISO 75-2	°C	73
Charpy impact strength (notched)	ISO 179	kJ/m ²	16
Tensile stress at yield	ISO 527-1	MPa	36
Tensile strain at break	ISO 527-1	%	20
Flexural strength	ISO 178	MPa	56
Flexural modulus	ISO 178	MPa	2200
Surface gloss	JIS K 7105	%	99
Ball pressure test	ICE 60695-10-2	°C	-
Flammability (UL94 Classification)	UL94	-	HB

MICAL 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.