TOYO STYRENE HIPS

Characteristics			Injection molding					Extrusion
			Strength & Rigidity	High gloss	Heat resisting	Medium flow	High Strength	Standard
Grade Name			**H350**	**H485**	**H650**	**H700**	**H830**	**E640N**
Melt mass-flow rate（200℃、5kg）	ISO 1133	g/10min	8.0	4.0	3.4	11	1.9	2.7
Vicat softening temperature（load 50N）	ISO 306	℃	88	96	96	90	94	94
Heat deflection temperature（load 1.8MPa）	ISO 75-2	℃	70	75	75	71	73	73
Charpy impact strength（notched）	ISO 179	kJ/m^2	8	12	11	10	15	11
Tensile stress at yield	ISO 527-1	MPa	30	37	32	25	28	30
Tensile strain at break	ISO 527-1	%	45	40	45	50	57	50
Flexural strength	ISO 178	MPa	50	60	58	44	48	53
Flexural modulus	ISO 178	MPa	2500	2350	2300	2150	1950	2200
Surface gloss	JIS K 7105	%	–	92	–	–	–	64
Ball pressure test	ICE 60695-10-2	℃	80	90	90	80	–	–
Flammability（UL94 Classification）	UL 94	–	HB	HB	HB	HB	–	–

Characteristics			Injection molding & Extrusion
			Super High gloss & High Strength
Grade Name			**XL4**
Melt mass-flow rate（200℃、5kg）	ISO 1133	g/10min	2.6
Vicat softening temperature（load 50N）	ISO 306	℃	94
Heat deflection temperature（load 1.8MPa）	ISO 75-2	℃	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	℃	–
Flammability（UL94 Classification）	UL 94	–	HB

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※All values and information shown above are subject to revision without notice, they are given