

			Injection molding						
			Ultra high flow	High flow	Heat resistance & High flow	Heat resistance	High-strength		
							Standard	Heat resistance	Medium flow
G100C	G200C	G210C	G320C	MW1C,D	MW2C,D	MT5D			
Melt mass-flow rate	ISO 1133	g/10min	28	9.0	9.0	4.0	1.9	2.7	2.9
Vicat softening temperature (load 50N)	ISO 306	°C	88	89	97	102	92	95	97
Heat deflection temperature under 1.8MPa load	ISO 75-2	°C	70	70	77	81	74	76	78
Charpy impact strength (notched)	ISO 179	kJ/m ²	1.1	1.4	1.3	1.9	2.5	2.2	2.0
Tensile stress at yield	ISO 527-1	MPa	39	41	42	45	45	46	46
Tensile strain at break	ISO 527-1	%	2	2	2	3	3	3	3
Flexural strength	ISO 178	MPa	74	80	89	98	93	93	95
Flexural modulus	ISO 178	MPa	3150	3200	3200	3200	3200	3200	3200
Ball pressure test	ICE 60695-10-2	°C	75	75	85	95	80	85	90
Flammability (UL94 Classification)	UL94	-	HB	HB	HB	HB	HB	HB	HB

			Injection molding		
			Medium molecular weight	High molecular weight	High melt tension
			HRM12	HRM26	HRM48N
Melt mass-flow rate	ISO 1133	g/10min	5.4	1.6	2.2
Vicat softening temperature (load 50N)	ISO 306	°C	102	103	102
Heat deflection temperature under 1.8MPa load	ISO 75-2	°C	81	82	81
Charpy impact strength (notched)	ISO 179	kJ/m ²	1.4	2.0	2.1
Tensile stress at yield	ISO 527-1	MPa	45	50	50
Tensile strain at break	ISO 527-1	%	3	3	3
Flexural strength	ISO 178	MPa	95	104	99
Flexural modulus	ISO 178	MPa	3200	3200	3250
Ball pressure test	ICE 60695-10-2	°C	-	-	-
Flammability (UL94 Classification)	UL94	-	-	HB	-

TOYO STYRENE **GPPS**

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			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**

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