

# Resin list

## Material Properties ※ Asian Countrys Only

Base Material of all resin below is Epxy.

## Comparison material

	TSR-850	TSR-890	※ TSR-884B	TSR-883	TSR-880	TSR-839	TSR-832	TSR-831	TSR-829	TSR-821	ABS	PMMA
Viscosity(mPa.s) 25°C	270	260	480	400	300	200	260	380	160	310		
Specific Gravity 25°C	1.14	1.11	1.10	1.12	1.13	1.07	1.11	1.10	1.07	1.12	1.04	1.2
Ec(mJ/cm <sup>2</sup> )	32	33	24	18	22	22	17	18	19	20-25		
Dp(mm)	0.19	0.21	0.21	0.18	0.22	0.21	0.16	0.17	0.19	0.15		
Tensile strength(MPa)	57 (50)	43	51 (50)	60	53	26	51	39	44	49	43	60
Elongation at break(%)	3.6 (1.9)	12	3-12 (4.4)	6.5	8.5	19	8	14	8	13-15	15-60	5
Tensile Modulus(MPa)	2,650 (3,080)	2,120	2,370 (2,090)	2,730	1,850	1,380	2,000	1,600	1,670	1,800	1,800	3,100
Flexural Strength(MPa)	89 (110)	66	87 (79)	98	78	47	80	62	68	70	70	100
Flexural Modulus(MPa)	2,430 (2,880)	1,710	2,260 (2,080)	2,710	2,350	1,430	2,300	1,650	1,840	2,225	2,250	3,000
Izod Impact Strength (J/m,notched)	33 (32)	47	30 (25)	37	46	52	31	49	34	48-49	200	20
HDT 1.81Mpa(°C)	47 (75)	45	53 (100)	54	48	44	52	45	49	49-52	80-90	80
HDT 0.46Mpa(°C)	53 (97)	49	58 (117)	59	52	49	59	48	53	55-56		
Hardness (ShoreD)	D85 (D86)	D81	D87 (D86)	D84	D80-82	D79	D84	D80	D83	D80-82		

The physical properties mentioned here are typical values and are not default values. The physical property values are subject to change without prior notices.