

Polyurethane (PU) Resins

PU Resin	VC3391	PX5211-HT	VC3399	VC3360	VC3361	VC3362	VC3300	VC3342	VC3385	PX205	8060 HT 1,2 or 3	9012
Mimics	ABS	ABS/PC	PMMA/ABS	NYLON (PA)	PP	ABS	Rubber	Rubber	ABS	PP/PEHD	PP/PE	ABS
Special Features -		UV Stable	High Temp			High Temp		Clear	V0 rated	Hinge Effect	High HT (max. 195*)	FDA Approved
		High Temp				Very Rigid		UV stable	UL94	Good Impact		Wet and Dry use
Resin Base Colour	Straw	Clear	Pale amber	Translucent	Opaque	Brown	Straw	Clear	Straw	Brown	Yellowish clear	White
Shore Hardness	83D-88D	80D	85D-90D	80D-85D	70D-75D	87D-92D	35A to 95 A	55 – 60A	85D-90D	70D	80D	77D
Tensile Modulus (Mpa)	60-70									530	1225	
Tensile Strength (Mpa)	65-75	75	50 - 55	80-85	30-35	70-75	1.5-11.5	1.1 – 1.3	80-85	25	47	40
Elongation to Break	7%-12%	9%	3%-4%	10%-12%	15%-25%	10%-12%	200%-1300%	65 – 85%	6%-8%	100%	43%	25%
Flexural Strength (Mpa)	75-85	105	95-100		75-85				105-115	30	60-48-64	51
Flexural Modules (Mpa)	1000-1200	2100	1950-2250	2900-3100	1000-1200	2500-2800			2250-2750	500	1310-1010-1320	1310
Impact Strength (j/m)		270									14-15-13	
Thermal Test method		Tg										
Temperature (HD)		100*	150-160*			95-100*			65-75	55	175-110-195*	90*
Temperature (GT)	68-72	110		82-87	80-90					90-100	195-132-195	108
UV Resistant	No	Yes	No	No	No	NO	No	Yes	No	No	No	No
Max.cast Thickness	15	10			10		15			5		
Shrinkage %**	0.2%-0.3%		0.2%	0.2%-0.4%	0.3%	0.2%-0.4%			0.2%-0.4%	0.7%	0.5%	0.5%-1%

*Temperatures are achieved after Heat treatment – Jigs may be required

*Lighter colours may darken during heat treating

**Shrinkage % is only a guide as geometry of part can effect this