

Polyurethane (PU) Resins

PU Resin	VC3391	PX5211-	PX5212	VC3399*	VC3360	VC336	VC3362	VC3300	VC3385	PX205	8060 HT 1,2 or	9012
Mimics	ABS	ABS	PMMA	PMMA/ High HDT	NYLON	PP	ABS HT/	Elastome	ABS	PP/PEHD	PP/PE	ABS
Special Features -		UV High Temp	UV High Temp						V0 rated UL94	Hinge Effect V.good	High HT	Wet & Dry FDA approved
Resin Base Colour	Straw	Clear	Clear	Pale	Transluc	Opaqu	Brown	Straw	Straw	Brown	yellowish clear	White
Shore Hardness	83D-88D	80D	80D	85D-90D	80D-85D	70D-75	87D-92D	35A to	80D-85D	70D	80D	85-90D
Tensile Modulus	60-70									530	1225	
Tensile Strength	65-75	75	75	50 - 55	80-85	30-35	70-75	1.5-11.5	80-85	25	47	40 N/mm2
Elongation to Break	7%-12%	9%	9%	3%-4%	10%-12%	15%-25	10%-12%	200-1300	6-8%	100%	43%	25%
Flexural Strength (Mpa)	75-85	105	105	95-100		75-85			105-115	30	60-48-64	51 N/mm2
Flexural Modulus (Mpa)	1000-1200	2100	2100	1950-2250	2900-3100	1000-1200	2500-2800		2250-2750	500	1310-1010-1320	1310 N/mm2
Impact Strength (j/		270	270								14-15-13	
Thermal Test		Tg	Tg									
Temperature (HD)		100	100	150-160			95-100		65-75	55	175-110-195	90
Temperature (GT)	68-72	110	110		82-87	80-90				90-100	195-132-195	108
UV Resistant	No	Yes	Yes	No	No	No		No	No	No	No	No
Max.cast Thickness	15	10	10			10		15		5		
Shrinkage %	0.2-0.3%			0.20%	0.2-0.4%	0.29%	0.2-0.4%		0.2-0.4%	0.70%	0.50%	0.5-1%