



Polyurethane (PU) Resins

PU Resin	VC3391	PX225	PX5211-HT	VC3360	VC3361	VC3362	VC3385	PX205	8060 HT 1-2-3	5170	8045 1-2- 3-4	PX205	3D-60A	VC3300	VC3342
Similar to	ABS	PC/ABS	PC/ABS	NYLON (PA)	PP	ABS	ABS	PP/PEHD	PP/PE	ABS	PP/PE	PP/PEHD	Rubber	Rubber	Rubber
Special Features			UV Resistance High Temp			HT/very rigid	V0 rated/ UL94	Hinge Effect Very good Impact	High HT (max. 195°C*)	130 HT No heat treatment required Tough	Variable hardness High impact Snap fit features	Hinge Effect Very good Impact	Resistant to chemicals degradation/ exposure Withstands 93°C		Clear UV stable
Resin Base Colour	Straw	Translucent	Clear	Trans	Opaque	Brown	Straw	Brown	Yellowish clear	Amber	Clear to White	Brown	Pale trans. Yellow	Translucent White	Clear
Shore Hardness	83D-88D	80D	80D	80D-85D	70D-75D	87D-92D	85D-90D	70D	80D	80D	48-61-70-74D	70D	60A	35A to 90A	55A/60A
Tensile Modulus (Mpa)	60-70							530	1225		970-700-400-150	530	5270 psi		
Tensile Strength (Mpa)	65-75	70	75	80-85	30-35	70-75	80-85	25	47	72	32-24-12-10	25	6670 psi	1.5 to 11.5	1.1-1.3
Elongation to Break	7%-12%	15	9%	10%-12%	15%-25%	10%-12%	6%-8%	100%	43%	15	55-60-65-75	100%	700%	1300 to 200	65-85%
Flexural Strength (Mpa)	75-85	97	105		75-85		105-115	30	60-48-64	103	43-22-11-5	30			
Flexural Modules (Mpa)	1000-1200	2500	2100	2900-3100	1000-1200	2500-2800	2250-2750	500	1310-1010-1320	2245	1000-580-300-110	500			
Impact Strength (j/m)		60	270						14-15-13	64	16-16-19-21				
Thermal Test method			Tg												
Temperature (HD)			85*			95-100	65-75	55	175-110-195*	130	79,53,42,35	55	93		
Temperature (GT)	68-72	80	110	82-87	80-90			90-100	195-132-195			90-100			
UV Resistant	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes
Max.cast Thickness mm	15	5	10		10			5				5			
Shrinkage %	0.20 - 0.30%	0.3%		0.20 - 0.40%	0.29%	0.20 - 0.40%	0.20 - 0.40%	0.70%	0.50%	0.2 - 0.5%		0.70%	0.3%		