



Axson (Western Supplier) resins available from Star Prototype China: Thermoplastic equivalent Polyurethanes for RTV Silicone/Vacuum Casting process

Popularity Rating (1 = Most)	Material Simulated	Axson Code	Price per Kg in Chinese Yuan	Comment	Tensile Strength MPa	Flexural Modulus MPa	Elongation before break	Shore Hardness	Density	Glass Transition Temperature	Original Colour
1	ABS	<b>UP4280</b>	<b>160</b>	Premium ABS Grade (similar to PX220 in EU)	85	2100	14%	81D	1.15	93°C	white, off-white, black
2	HIPS	PX100	140	General Grade for Larger Parts - Toys	40	1500	20%	74D	1.06	75°C	white
3	PC/PMMA	<b>PX521HT Slower</b>	<b>345</b>	Crystal Clear UV Stable for Larger/Complex Parts/Auto Lamps	75	2100	9%	87D	1.05	110°C	clear
4	PP/PE	UP5690	200	PP Simulant - Living Hinge - Auto/Bumpers (similar to PX212 in EU)	20 to 35	670 to 1350	50 to 90%	75 to 83D	1.13	?	black and white
5	ABS (40 parts)	<b>PX223HT</b>	<b>390</b>	High Temp: No. 1 in EU / Auto/Medical/Chemically stable - Popular with Delphi - min 40 parts	60	2300	11%	80D	1.14	<b>&gt;120°C</b>	<b>black</b>
6	Rubber	<b>UPX8400</b>	<b>170</b>	Simulates Rubber	6 to 22	na	450% to 660%	16 to 86A	>1.03		white/cream and black
7	HIPS	PX215	150	General Grade for Small Parts	40	1500	20%	75D	1.13	90°C	white
8	ABS	UP6160	500	Very High Temp: Auto Under the Bonnet (similar to PX234 in EU)	65	2100	15%	80D	1.2	<b>&gt;200°C</b>	<b>light brown</b>
9	PC/PMMA	PX522HT Faster	345	Crystal Clear UV Stable for Smaller Regular Parts/Auto Lamps	75	2100	9%	87D	1.05	110°C	clear
10	Filled ABS / POM	PX527	210	Transparent mainly simulates filled ABS or POM	70	2600	13%	82D	1.15	90	clear
11	Nylon/POM	PX245L	470	Ultra rigid - high viscosity as a liquid - needs differential pressure m/c	85	<b>4500</b>	3%	85D	1.22	95°C	off-white