

Technical Specifications									
	Pantone Color Matching	Tensile Strength MPa	Flexural Modulus MPa	Elongation Before Break	Shore Hardness	Density	Glass Transition Temperature	Original Color	Shrinkage
STAR-PU Classic ABS	Fair	81	2100	13%	81D	1.15	93°C	white, off-white, black	0.004
STAR-PU Classic PP	Fair	25 - 35	600 - 1300	50 - 90%	75 to 83D	1.13	-	black and white	0.004
STAR-PU Acetal	Excellent	70	2600	13%	82D	1.15	90°C	transparent	-
STAR-PU Crystal Clear	Best	65 - 70	2000 - 2200	15 - 20%	83D	1.1	105°C	transparent	0.4-0.45%
STAR-PU Rigid PA POM	Poor/Fair	85	4500	3%	85D	1.22	95°C	off-white	0.004
STAR-PU Rubber 30/83	Fair	-	-	430%	40A to 80A	1.1	-	off-white	-
STAR-PU Transparent Rubber	Fair	2.0 - 40		260-300%	40A to 80A	-		transparent	-
STAR-PU High-Temp ABS 120C	N/A	60	2300	11.000%	80D	1.14	>120°C	black	0.008
STAR-PU High-Temp ABS 200C	N/A	59 - 69	2100 - 2200	15 -16%	80-81D	1.2	>200°C	yellowish	0.7-0.9%

Notes about coloring:	
STAR-PU Classic ABS	Due to the natural "off- white" color of the base material, we cannot achieve bright or light colors, e.g. bright blue, bright purple, light blue and light purple. With STAR-PU Classic ABS, some Pantone® matches are possible.
STAR-PU Classic PP	These materials are three component materials. The C component has a natural "pale-yellow" color so we cannot achieve bright and light colors, especially blue and purple. Also, as we change the hardness of the material by changing the ratio of the C component, so the color will change.
STAR-PU Acetal	These material colors are clear therefore we can easily match Pantone® references. For matching bright, vivid or pastel colors these materials are best suited.
STAR-PU Crystal Clear	UV stability: this is the only casting material we have access to that is UV stable. All other materials will fade over time. Natural "off-white" parts will become darker, therefore any colors will also change with exposure to UV light.
STAR-PU Rigid PA POM	The natural color of this material is "off-white". The same rules apply for STAR-PU Classic ABS. Also, this material has a high viscosity making it even more difficult to mix colors. We can achieve white, black, red, yellow, green, dark blue – but none of these colors are 'vivid'.
STAR-PU Rubber 30/83	Color mixing is fair.
STAR-PU High-Temp ABS 120C	The material color is "black," cannot mix colors. It is possible to create some grays.
STAR-PU High-Temp ABS 200C	High thermal resistance material. The material and the color dies are immiscible, therefore cannot mix color.