



MATERIAL PROPERTIES

Vacuum Casting PUR

Vacuum casting PUR

By casting parts in PUR, we can quickly produce parts with properties and finishes that simulates injection molded thermoplastics

	PUR																				
	8891-30A	8891-40A	8891-50A	8891-60A	8891-70A	8891-80A	8891-90A	9070-70A	PX205	8040	PX212	PX2017	PX205+GF	8051	8263 VO	PX223 HT	SG95	SG95+GF	8051+10%GF	8051+20%GF	
Color of the material (can be dyed)	white	white	white	white	white	white	white	transp	beige	white	beige	black	beige	white	white	black	transp	white	white	white	white
Special properties	soft	soft	soft	soft	soft	soft	soft	soft	HDPE	HDPE	HDPE	PP	PP+GF	ABS	ABS VO	ABS	PC	PC/ ABS+GF	PA+GF	PA+GF	
Hardness (shore A/D)	30A	40A	50A	60A	70A	80A	90A	70A	70D	70D	76D	80D	-	84D	83D	80D	82D	-	-	-	
Flexural modulus MPa	-	-	-	-	-	-	-	-	500	1050	1200	1600	-	1965	2200	2300	2400	-	2873	4285	
Flexural strength MPa	-	-	-	-	-	-	-	-	30	42	80	87	-	86	93	80	99	-	95	117	
Tensile modulus MPa	-	-	-	-	-	-	-	-	530	942	-	1650	-	2150	-	-	2521	-	3614	5696	
Tensile strength MPa	3	4	5	6	8	12	17	4,3	25	27	50	54	-	56	68	60	58	-	63	70	
Tear strenght N/mm	9	10	12	16	20	27	34	20	-	-	-	-	-	-	-	-	-	-	-	-	
Heat deflection temp °C	-	-	-	-	-	-	-	-	-	65	-	-	-	92	80	-	72	-	ca 120	ca 140	
Glass transition temp °C	-	-	-	-	-	-	-	-	90-100	78	90	90-100	-	110	-	>120	68	-	-	-	
Elongation at break %	310	310	290	290	230	260	270	225	100	50	25	11	-	8	15	11	25	-	-	-	
Izod impact kJ/m²	-	-	-	-	-	-	-	-	-	15	>50	56	-	9,8	10	>60	12	-	-	-	

The above information is taken from the respective material supplier. Prototal takes no responsibility for any deviations from the above data.