SCHNEIDER INTERNATIONAL

PLASTIC 1 PU

This table compares the standard PU resins we use with comparable production materials. We continually update this table because we are always testing new materials for suitability. If they pass these tests, we offer them to our customers. Some of the plastics (*) can also be produced in any RAL colour.

Schneider Material	Comparable Series-Material	Intended use	Shore-Hardness	Breaking Elongation (%)	Heat Resistance (°C)	E-Modul (N/qmm)	Impact Strength (kJ/qm)
PU – ABS	ABS (*)	Prototypes of all kinds Art	85 D	8	-20 - +90	2000	10
PU – UV	PA-UV	Outdoor applications	80 D	11	75	2850	7
PU – FDA	ABS-FDA	Food or medical save	70 D	25	90	1300	k.A.
PU – V0	POM-V0	Flame retardant	85 D	7	90	2700	7
PU – HD	POM	Abrasion-proof	80 D	7	90	2700	5
PU – PA	PA - 6	Impact-resistance, rigid components	80 D	18	-20 - +100	700	> 150 – no Impact
PU – PA 30GF	PA6.6 – GF30	Mechanically stressed parts	85 D	3	95	4500	30
PU – PA HT	PA – 6 HT	Impact-resistance and high temperature components	80 D	18	150	800	> 150 – no Impact
PU – PP	PP (*)	With good elongation at failure	70 D	125	-20 - +100	1300	23
PU – PEEK	PEEK	In engine to high temperature	70 D	13	190	1800	40
PU – Clear	PMMA (*)	Transparent prototypes	80 D	9	-20 - +110	2100	27
PU - TPE	TPE	Rubber-type prototypes also usable at law temperatures	40 A – 90 A	ca. 300	-40 - +120	-	-
PU TPE 55A HT	EPDM / NBR	Rubber-type temperature-resistant components	55 A	ca. 250	120(°C) (UL94 V0)	-	-