

Material properties

V04.03 | 16 FEBRUARY 2022

	RESIN	ULTIMATE TENSILE STRENGTH	ELONGATION AT BREAK	TENSILE MODULUS	SHORE HARDNESS	IMPACT STRENGTH *	HEAT DEFLECTION TEMP**	COMPARABLE THERMOPLASTIC	BIOCOMPATIBILITY: CYTOTOXICITY	FULL MATERIAL DATA****
2 PART	CE 221	85 MPa	3%	3900 MPa	92D	15 J/m	230° C	Glass filled nylon	✓	TDS
	EPU 40	9 MPa	300%	N/A	68A	N/A	N/A	TPU	✓	TDS
	EPU 41	15 MPa	250%	N/A	73A	N/A	N/A	TPU	✓	TDS
	EPX 82	80 MPa	5%	2800 MPa	89D	45 J/m	130° C	20% glass-filled PBT	✓	TDS
	EPX 86FR	90 MPa	5%	3300 MPa	88D	30 J/m	135° C	20% glass-filled PBT	-	TDS
	FPU 50	25 MPa	200%	700 MPa	71D	40 J/m	70° C	Polypropylene	✓	TDS
	MPU 100	35 MPa	25%	1200 MPa	81D	30 J/m	50° C	-	✓	TDS
	RPU 70	40 MPa	100%	1700 MPa	80D	15 J/m	60° C	ABS or PC ABS	✓	TDS
	RPU 130	35 MPa	100%	900 MPa	77D	75 J/m	120° C	Nylon 6	✓	TDS
	SIL 30	3.5 MPa	350%	N/A	35A	N/A	N/A	TPE	✓	TDS
1 PART	DPR 10	45 MPa	4%	1800 MPa	N/A	20 J/m	60° C	-	✓	TDS
	Henkel IND405	42 ± 4 MPa	120 ± 8%	1500 ± 31 MPa	78D	50 J/m	53° C	Polypropylene	-	Loctite TDS
	PR 25***	29 MPa	>15%	920 MPa	N/A	18 J/m	49° C	-	✓	NA
	UMA 90	30 MPa	30%	1400 MPa	86D	30 J/m	45° C	-	✓	TDS

 Indicates the highest value in its category.

*NOTCHED IZOD, ASTM D256
 **0.455 MPA, ASTM D648
 ***UV-LED Cure, 30s/side
 ****Refer to the TDSs for further information