

Parts In Minutes

Fast Curing, Two Component, Polyurethane System for Rapid Prototyping

Parts In Minutes polyurethanes simulate the appearance and physical characteristics of engineering thermoplastics for prototyping and production runs. They can be used to produce functional prototype parts suitable for use in all major industrial areas including automotive, aerospace, consumer goods, electronic and leisure applications.

For data sheets click on product name

Product	Mixing ratio A (pbw)	Mixing ratio B (pbw)	Properties	Application	Pot life at 25°C (sec)	Demoulding time at RT (mins)	Max. Layer Thickness (mm)	Cure	Colour	Shore Hardness (ISO 868)	Deflection temperature (ISO 75) (°C)	Impact strength charpy, double notched (KJ/m²)	Tensile strength at 25°C (ISO 527) (MPa)	Elongation at Break at 25°C (ISO 527) (%)	E modulus at 25°C (ISO 527) (MPa)
RenPIM® 5212 A / 5212 B	60	100	Flexible, simulates HDPE	Functional prototype parts and shortrun production parts	100-120	15-20	4	see data sheet	Neutral	55-65 D	80	11	15-20	35-40	700
RenPIM® 5213-1 A / 5213-1 B	65	100	Flame retardance to UL94 V-O simulates PP/ABS	Functional prototype parts and shortrun production parts	50-70	15-30	3	see data sheet	Caramel	78-83 D	90	4	30-35	8-12	1500
RenPIM® 5214 A / 5214 B	80	100	High temperature resistance, pigmentable, simulates PP/ABS	Functional prototype parts and shortrun production parts	60-80	10-15	4	see data sheet	Beige	75-80 D	120	2.5	30-40	3-10	1800
RenPIM® 5215 A / 5215 B	80	100	High temperature resistance, simulates PP/ABS	Functional prototype parts and shortrun production parts	40-60	10-15	4	see data sheet	Black	75-80 D	130-140	2.5	30-40	5-10	1200
RenPIM® 5216 A / 5216 B	80	100	Toughened, high impact resistance, pigmentable, simulates PP/ABS	Functional prototype parts and shortrun production parts	40-60	15-20	5	see data sheet	Neutral	75-80 D	80	3.5	30-35	35-40	1300
RenPIM® 5217 A / 5217 B	80	100	Toughened, high impact resistance, simulates PP/ABS	Functional prototype parts and shortrun production parts	40-60	10-15	5	see data sheet	Black	75-80 D	85-90	2.8	35-40	8-12	1300
RenPIM® 5218 A / 5218 B	80	100	High flexural modulus, toughened, simulates PP/ABS	Functional prototype parts and shortrun production parts	100-130	20-30	4	see data sheet	Black	75-85 D	90-100	1.9	40-45	18-20	1800
RenPIM® 5219 A / 5219 B	80	100	For adding to faster systems to reduce reaction rate, for casting thicker layers	Functional prototype parts and shortrun production parts	40-60 min	16-18 hrs	20	see data sheet	Neutral	78-83 D	70-75	3	60-70	10-14	3100
RenPIM® 5220 A / 5220 B	120	100	Temperature resistant to 180°C, for high temperature applications simulates PP/ABS	Functional prototype parts and shortrun production parts	45-70	15-20	4	see data sheet	Black	70-80 D	up to 184	6	45-50	5-10	1800
RenPIM® 5221-1 A / 5221-1 B	100	32	Very high impact material for crash test parts, simulates P.E.	Functional prototype parts and shortrun production parts	45-55	15-20	4	see data sheet	Black	70-74 D	58	170-190	30-40	160-190	390