



4PROP® is the registered trade name for Polypropylene compounds produced by 4PLAS.

Property	Condition	Unit	Standard	4PROP 4D21120 PP HP 20% Taic filled	4PROP 4D22140 PP HP 40% Taic filled	4PROP 4D22120 PP HP 20% Glass fibre coupled	4PROP 4D22130 PP HP 30% Glass fibre coupled	4PROP 4D22130 PP CP 30% Glass fibre coupled	4PROP 4C23100 PP CP Halogen Free flame retardant to UL94 V-0	4PROP 5C10000 PP CP medium impact, standard flow, Industrial	4PROP 5C40000 PP CP Easy flow, Industrial	4PROP 5C04200 PP CP High impact, Industrial	4PROP 5C14300 PP CP EPDM modified, Industrial	4PROP 5C2622.5 BK PP CP Carbon Black filled UV resistant	4PROP 19D02540 PP HP Long glass fibre coupled
Mechanical															
Tensile yield strength	+23°C	MPa	ISO 527	32	30	72	90	80	23	22	22-25	25-30	23-27	25	146
Ultimate elongation	+23°C	%	ISO 527	>50	10	3	3	3	22	-	-	-	>90	-	-
Flexural modulus	+23°C	MPa	ISO 178	2600	3800	4000	5800	5000	2000	-	550-850	-	-	-	7700
Izod impact resistance	+23°C	J/m	ASTM D256	40	30	80	100	140	42	6-9	3.5-5.5	11-18	-	-	-
Izod impact resistance	0°C	J/m	ASTM D256	25	20	60	80	110	-	-	-	-	-	-	-
Thermal															
Vicat softening temperature	50N	°C	ISO 306	95	100	128	135	115	77	-	-	-	-	146	145
Heat deflection temperature		°C	ISO 75	65	80	135	150	145	60	-	-	-	75-90	98	162
Ball pressure test		°C	IEC 335	125	125	125	125	125	125	-	-	-	-	-	-
Electrical & Flammability															
Glow wire test	2mm Plaque	°C	IEC 60695	650	650	650	650	650	960	-	-	-	-	-	750
Limited oxygen index			ASTM D2863	21	21	21	21	21	30	-	-	-	-	-	-
Physical															
Density	+23°C	g/cm3	ISO 1183	1.05	1.22	1.05	1.13	1.13	1.05	0.908	0.908	0.908	0.908	0.905	1.24
Linear mould shrinkage		%	ASTM D955	1-1.3	0.8-1.1	0.3-0.5	0.2-0.4	0.2-0.4	1.3-1.8	-	-	-	-	-	0.4
Water Absorption	Saturation, 23°C	%	ISO 62	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-	-	-
Melt flow Index	200°C	g/10mins	ISO 1133	4	4	3	2.5	9	8	10-15	28-45	2-4.5	5-9	6.5	2

NOTE: The above given properties are based on our general experience and are given in good faith, however due to the many factors which are outside of our knowledge and control which effect the use of the products, no warranty is given, nor implied with respect of such information. This data is for reference purposes only and should not be used alone as the basis for product design or to create specification limits. It is therefore strongly recommended that users test the product under their processing conditions to determine the suitability for any required application and or use.