

Forticast Product Catalogue and Technical Details - 2021

Name	Composition	Mixing ratio	Colour	Main Applications	Uncured Form Properties						Cured Form Properties										Packaging available		
					Pot Life @ 25C (min)	Exothermic Peak (°C)	Viscosity (mPas)	Demould Time	Post Cure Time @ 60 C	Max Recommended Thickness (mm)	Density (g/ml)	Hardness (Shore D/ 15)	Glass Transition (°C)	Linear Shrinkage (%)	Max Operating Temp (°C)	Flexural Strength (MN/m ²)	Maximum Strain (%)	Flexural Elastic Modulus (MN/m ²)	Tensile Strength (MN/m ²)	Elongation at break (%)	Compressive Strength (MN/m ²)	Small Pack	Standard Pack
1 PC 26 + G 226	PU Casting Resin	100 : 100	White	Matrices, foundry patterns, casted handworks. High toughness. Pilot moulds for vacuum forming	3 - 4	82 - 92	45 - 90	1 - 1.5 hr	4 - 6 hrs	5	1.08 - 1.1	75 - 79	78 - 84	0.57 - 0.65	80 - 85	36 - 42	5 - 7	1100 - 1300	29 - 31	4 - 6	45 - 49	1.4 + 1.4 kg	-
2 PC26 + G 226 + EP 35	PU Casting Resin + Aluminum Oxide Filler	100 : 100 : 300	White	Matrices, foundry patterns, casted handworks. High toughness. Pilot moulds for vacuum forming	5 - 7	50 - 60	2500 - 4500	1 - 1.5 hr	4 - 6 hrs	30 - 70	1.6 - 1.65	82 - 86	78 - 84	0.37 - 0.43	80 - 85	50 - 58	1 - 1.5	3900 - 4300	32 - 34	0.8 - 1.2	58 - 62	1.4 + 1.4 kg; 5 kg	-
3 PC 39 + G 226	PU Casting Resin	100 : 100	White	Large size models, matrices and negatives.	13 - 20	65 - 75	40 - 70	10 - 12 hrs	-	3 - 7	1.04 - 1.08	73 - 77	75 - 80	2.7 - 2.85	-	38 - 45	5 - 5.75	1000 - 1300	23 - 28	3 - 4	-	-	5 + 5 kg
4 PC 39 + G 226 + EP 35	PU Casting Resin + Aluminum Oxide Filler	100 : 100 : 300	White	Large size models, matrices and negatives.	8 - 12	40 - 45	2000 - 2800	10 - 12 hrs	-	30 - 70	1.59 - 1.63	77 - 81	75 - 80	1.25 - 1.3	-	33 - 40	1 - 2	3600 - 4000	15 - 22	0.6 - 1	38 - 47	-	5 + 5 kg; 20 kg
5 PC 1121 + G 121	PU Casting Resin	100 : 110	White	Rapid prototyping and preseries of injection moulded thermoplastic components.	3 - 4	-	200 - 300	35 - 45 min	-	3 - 5	1.05 - 1.15	83 - 85	65 - 75	1.5 - 3	-	75 - 80	6.5 - 7.5	1800 - 2000	48 - 52	4 - 5	75 - 80	1 + 11 kg	-
6 PC 224 Glass + G 124	PU Casting Resin	100 : 65	Transparent	Realization of functional prototyping, demonstrative and pre-series of transparent objects.	20 - 30	-	600 - 1000	3 - 4 hrs	-	40	1.08 - 1.12	84 - 88	80 - 86	-	-	62 - 70	5 - 7	1700 - 2000	42 - 50	8 - 12	55 - 60	2 + 1.3 kg	-
7 EC 141 + W 241	Epoxy Casting Resin	100 : 45	Transparent	Castings and encapsulation which need true transparency and resistance to yellowing.	75 - 95	-	650 - 950	36 - 48 hrs	15 hrs	100	1.08 - 1.12	80 - 85	61 - 67	-	55	90 - 102	4 - 5.5	2900 - 3200	51 - 58	6 - 9	-	-	11 + 5 kg
8 EC 141 + W 242	Epoxy Casting Resin	100 : 45	Transparent	Castings and encapsulation which need true transparency and resistance to yellowing.	35 - 45	170 - 190	650 - 950	18 - 24 hrs	15 hrs	10	1.08 - 1.12	80 - 85	52 - 58	-	50	69 - 78	3.5 - 5.5	2200 - 2700	38 - 47	9 - 13	-	-	5.5 + 2.4 kg

NOTE: The figures are intended as a guide and should not be used in preparing specifications

Fillers	Composition
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EP 35	Aluminum Hydroxide Powder
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