

MANUCAST

MASS CASTING

TECHNICAL DATA SHEET

	MCPU-0675	MCPU-0725	MCPU-1775
Density (g/cc)	0.675	0.726	1.776
Hardness (Shore D)	74.2	74.4	89
Flexural Modulus (MPa)	2480.4	2475.88	8862.86
Flexural Strength (MPa)	49.62	45.94	64.04
Izod impact un-notched (kJ/m ²)	10.31	9.03	6.13
Tensile Modulus (MPa)	3236.8	3617.55	8686.88
Tensile Strength (MPa)	38.86	30.58	46.57
Elongation at Break (%)	1.5	1.14	0.56
HDT at 1.8MPa (°C)	81.5	80	83
CTE (m/m°C)	4.92E-05	5.91E-05	4.80E-05
Tg (determined by TMA over 30 to 100C)	88	81	Not determined
Compressive Modulus (GPa)	1.68	1.77	4.21
Compressive Strength (MPa)	60.48	57.88	108.64

Key features

- 🔧 Available in standard blocks or custom made to order. Varying shapes and sizes.
- 🔧 Various formulations available to suit either Modelling or Tooling applications.
- 🔧 No joints to produce a *seamless* high quality uniform finish.
- 🔧 Process creates less material waste and reduces CNC machining time.
- 🔧 Good dimensional stability.
- 🔧 Formulations available for Direct Cut Tools.
- 🔧 All casting and CNC machining processes carried out in-house.