

機械的特性・物理的特性(代表値)

Type		Compression molding	Injection molding	
Binder resin		Epoxy 150°C耐熱	PA12(エラストマー添加品) 120°C耐熱	PPS 150°C耐熱
Tensile strength	MPa	12 **	10 *	7 **
Modulus of elasticity	GPa	21 **	2.9 *	3.5 **
Poisson's ratio	-	0.33 **	0.27 *	0.27 **
Tensile strain at breaking	%	0.1 **	0.5 *	0.3 **
Compressive strength	MPa	100 **	37 *	56 **
Compression strain at breaking	%	1.1 **	5.3 *	7.0 **
Hoop stress	MPa	(27)	-	-
Radial crushing strength	MPa	20	-	-
Coefficient of thermal expansion	%/°C	10.5×10^{-6} ***	37×10^{-6} ***	36×10^{-6} ****
Molded density	g/cm ³	6.0	5.5	5.0

* Measurement temperature : 120°C

** Measurement temperature : 150°C

*** Measurement temperature : -40°C~120°C

**** Measurement temperature : -40°C~150°C