



InStruc® POMCGF5

PRODUCT DESCRIPTION 5% GLASS FIBER REINFORCED ACETAL COPOLYMER

MATERIAL STATUS Commercial: Active

AVAILABILITY Africa & Middle East, Asia Pacific, Europe, Latin America, North America

FILLER / REINFORCEMENT Glass Fiber, 5.0% Filler by Weight

FEATURES Filled, Good Dimensional Stability, High Stiffness, High Strength

USES Closures, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Household Goods, Industrial Applications, Office Automation Equipment, Window & Door Components

FORMS Pellets

PROCESSING METHOD Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.2 to 1.8	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Tensile Elongation (Yield)	8.0 to 10	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 1.8 MPa, Unannealed	121	°C	ASTM D648



INJECTION	NOMINAL VALUE	UNIT
Drying Temperature	82	°C
Drying Time	4.0	hr
Dew Point	-32	°C
Processing (Melt) Temp	199 to 210	°C
Mold Temperature	82 to 104	°C
Injection Pressure	68.9 to 103	MPa
Back Pressure	0.172 to 0.345	MPa
Screw Speed	30 to 60	rpm

NOTES

¹ Typical properties: these are not to be construed as specifications.

