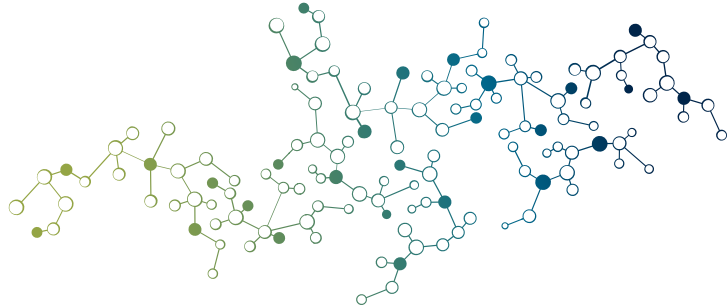




ColorFast® PEEK-1000

PRODUCT DESCRIPTION STANDARD FLOW POLYETHERETHERKETONE (PEEK)

MATERIAL STATUS Commercial: Active

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

FEATURES Excellent Colorability

USES Aerospace Applications, Connectors, Consumer Applications, Engineering Parts, Industrial Applications, Industrial Parts, Military/Defense Applications, Oil/Gas Applications, Outdoor Applications

FORMS Pellets

PROCESSING METHOD Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.011 to 0.013	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	508000	psi	ASTM D638
Tensile Strength	13800	psi	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus	537000	psi	ASTM D790
Flexural Strength	22000	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	1.7	ft-lb/in	ASTM D256
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 264 psi, Unannealed	315	°F	ASTM D648
FLAMMABILITY	NOMINAL VALUE	UNIT	TEST METHOD
Flame Rating (0.12 in)	V-0		Internal Method

INJECTION	NOMINAL VALUE	UNIT
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	680 to 720	°F
Mold Temperature	350 to 400	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

NOTES

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