

TES J-80/20

Techmer Polymer Modifiers - Acetal (POM) Copolymer

General Information

Product Description

Molding Parameters:

For 2-zone machines, the rear temperature is 360-410°F, and the front temperature is 350-380°F.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Chemical Resistant • Good Stiffness • Self Lubricating • Copolymer • Good Toughness • Good Dimensional Stability • High Strength
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.55		ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.27	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.00E+6	psi	ASTM D638
Tensile Strength (Yield)	12000	psi	ASTM D638
Tensile Elongation (Yield)	2.2	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength (Yield)	16000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	325	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	320	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160	°F
Drying Time	1.0	hr
Rear Temperature	350 to 380	°F
Middle Temperature	370 to 410	°F
Front Temperature	360 to 390	°F
Nozzle Temperature	350 to 400	°F
Processing (Melt) Temp	380 to 420	°F
Mold Temperature	180 to 250	°F

