

## Optiflex 70A TPU

The Materials Group - Thermoplastic Polyurethane Elastomer

### General Information

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Material Status	• Commercial: Active
Availability	• North America
Features	• Excellent Processability
Forms	• Pellets
Processing Method	• Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.08		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	435	psi	ASTM D412
Tensile Stress (300% Strain)	870	psi	ASTM D412
Tensile Strength (Break)	3770	psi	ASTM D412
Tensile Elongation (Break)	880	%	ASTM D412
Tear Strength	420	lbf/in	ASTM D624
Compression Set			ASTM D395
75°F, 22 hr	20	%	
158°F, 22 hr	35	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	167	°F	ASTM D1525

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175 to 195	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.030	%
Processing (Melt) Temp	374 to 392	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

