

Optiflex 90A TPU

The Materials Group - *Thermoplastic Polyurethane Elastomer*

General Information

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Features	<ul style="list-style-type: none"> Excellent Processability
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.23		ASTM D792
Mechanical			
Tensile Modulus	7100	psi	ASTM D638
Elastomers			
Tensile Stress (100% Strain)	1500	psi	ASTM D412
Tear Strength	730	lbf/in	ASTM D624
Hardness			
Durometer Hardness (Shore A)	92		ASTM D2240
Thermal			
Vicat Softening Temperature	270	°F	ASTM D1525

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175 to 195	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.030	%
Processing (Melt) Temp	380 to 420	°F

Notes

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

