

**ColorFast® TPEU9000-75D**
*Americhem - Thermoplastic Polyurethane Elastomer (Polyether)*
**General Information**
**Product Description**

Aromatic polyether-based thermoplastic polyurethane

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Excellent Colorability
Uses	• Consumer Applications • Household Goods • Industrial Applications • Industrial Parts
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Molding Shrinkage - Flow	3.0E-3	in/in	ASTM D955
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5050	psi	ASTM D412
Tensile Stress (300% Strain)	7150	psi	ASTM D412
Tensile Strength	7300	psi	ASTM D412
Tensile Elongation (Break)	320	%	ASTM D412
Tear Strength <sup>2</sup>	1470	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	271	°F	ASTM D1525

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	200 to 220	°F
Drying Time	2.0	hr
Rear Temperature	410 to 440	°F
Middle Temperature	415 to 450	°F
Front Temperature	415 to 450	°F
Nozzle Temperature	425 to 455	°F
Processing (Melt) Temp	425 to 465	°F
Mold Temperature	70 to 120	°F
Back Pressure	800	psi
Screw Speed	40 to 80	rpm

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

<sup>2</sup> Die C
