

**ColorRx® TPEU9500-75D-RX**
*Americhem - Thermoplastic Polyurethane Elastomer*
**General Information**
**Product Description**

TPEU9500-75D-RX is an injection molding grade of aromatic polyether-based thermoplastic polyurethane (TPU) with Shore-D hardness of 75. Suitable for healthcare applications.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Biocompatible • E-beam Sterilizable	• Ethylene Oxide Sterilizable • Excellent Colorability	• Radiation Sterilizable
Uses	• Engineering Parts	• Medical/Healthcare Applications	• Surgical Instruments
Agency Ratings	• ISO 10993	• USP Class VI	
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus <sup>2</sup>	190000	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Break)	5810	psi	ASTM D412
Tensile Elongation (Break)	380	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	76		ASTM D2240

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	210 to 230	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	380 to 410	°F
Middle Temperature	390 to 420	°F
Front Temperature	400 to 430	°F
Nozzle Temperature	410 to 440	°F
Processing (Melt) Temp	410 to 440	°F
Mold Temperature	60 to 140	°F

**Notes**

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

<sup>2</sup> 2.0 in/min

