

**ColorRx® TPES5500-50A-RX**
*Americhem - Thermoplastic Elastomer*
**General Information**
**Product Description**

TPES5500-50A-RX is an injection molding grade of transparent thermoplastic elastomer (TPE) with Shore-A hardness of 50. 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
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Molding Shrinkage - Flow (0.125 in)	8.0E-3 to 0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus <sup>2</sup>	2020	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Break)	801	psi	ASTM D412
Tensile Elongation <sup>2</sup> (Break)	700	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ASTM D2240

**Processing Information**

Injection	Nominal Value	Unit
Rear Temperature	340 to 370	°F
Middle Temperature	379 to 430	°F
Front Temperature	379 to 441	°F
Nozzle Temperature	410 to 441	°F
Processing (Melt) Temp	410 to 430	°F
Mold Temperature	55 to 100	°F
Screw Speed	25 to 75	rpm

**Notes**

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

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

