

ColorRx® TPES5500-40A-RX
Americhem - Thermoplastic Elastomer
General Information
Product Description

TPES5500-40A-RX is an injection molding grade of transparent thermoplastic elastomer (TPE) with Shore-A hardness of 40. It demonstrates good adhesion to PC and ABS. 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 ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.920		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.020 to 0.026	in/in	ASTM D955
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ² (Break)	503	psi	ASTM D412
Tensile Elongation ² (Break)	580	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	42		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	331 to 370	°F
Middle Temperature	360 to 390	°F
Front Temperature	370 to 399	°F
Nozzle Temperature	379 to 421	°F
Processing (Melt) Temp	370 to 410	°F
Mold Temperature	70 to 90	°F
Screw Speed	75 to 125	rpm

Notes

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

² 2.0 in/min

