ColorRx® TPES5500-40A-RX

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.

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.918	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0 to 2.6	%	ASTM D955

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength [2] (Break)	3.47	MPa	ASTM D412
Tensile Elongation [2] (Break)	580	%	ASTM D412

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	42		ASTM D2240

Injection	Nominal Value	Unit
Rear Temperature	166 to 188	°C
Middle Temperature	182 to 199	°C
Front Temperature	188 to 204	°C
Nozzle Temperature	193 to 216	°C
Processing (Melt) Temp	188 to 210	°C
Mold Temperature	21 to 32	°C
Screw Speed	75 to 125	rpm

Notes

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

[2] 51 mm/min

Properties provided are only typical values and Americhem assumes no liability for the customer's use of the information provided. The customer assumes all responsibility for testing determining this products suitability in the customer's specific end application.

Revision Date: 1/13/2025

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