

ColorRx® TPU-90A0RX

Thermoplastic Polyurethane Elastomer

LTL Color Compounders, Inc.

Message:

A biocompatible, 90 Shore A, aromatic polyether based Thermoplastic Polyurethane Elastomer offering excellent toughness and flexibility, abrasion resistance and good toughness for healthcare applications.

General Information	
Features	Aromatic Biocompatible Good Abrasion Resistance Good Flexibility Good Toughness
Uses	Medical/Healthcare Applications
Agency Ratings	ISO 10993 USP Class VI

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/10.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	40.0	MPa	ASTM D412
Tensile Elongation (Break)	420	%	ASTM D412
Tear Strength	136	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	13	%	
70°C, 22 hr	35	%	

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