

ColorRx® TPEV7500-45A-RX
Americhem - Thermoplastic Vulcanizate Alloy
General Information
Product Description

TPEV7500-45A-RX is an injection molding grade of thermoplastic vulcanizate (TPV) with Shore-A hardness of 45. It is 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
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ² (Break)	522	psi	ASTM D412
Tensile Elongation ² (Break)	440	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	49		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	350 to 375	°F
Middle Temperature	355 to 380	°F
Front Temperature	365 to 390	°F
Nozzle Temperature	365 to 410	°F
Processing (Melt) Temp	290 to 420	°F
Mold Temperature	75 to 125	°F
Back Pressure	50.0 to 100	psi
Screw Speed	100 to 200	rpm

Notes

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

² 2.0 in/min

