



ColorRx® TPEV7500-45A-RX

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.

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

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	0.910	g/cm ³	ASTM D792
ELASTOMERS	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength ² (Break)	3.60	MPa	ASTM D412
Tensile Elongation ² (Break)	440	%	ASTM D412
HARDNESS	NOMINAL VALUE	UNIT	TEST METHOD
Durometer Hardness (Shore A, 10 sec)	49		ASTM D2240
INJECTION	NOMINAL VALUE	UNIT	
Rear Temperature	177 to 191	°C	
Middle Temperature	179 to 193	°C	
Front Temperature	185 to 199	°C	
Nozzle Temperature	185 to 210	°C	
Processing (Melt) Temp	143 to 216	°C	
Mold Temperature	24 to 52	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	100 to 200	rpm	

NOTES

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

² 51 mm/min

