REZILIENT Rx™

Medical Grade TPE

Exclusively available by Compounding Solutions, ReZilient™ Rx is a series of high-performance SBC based TPEs formulated for medical applications. ReZilient ™ Rx grades are specifically optimized to bond to polypropylene, but can be formulated to bond to many polymers. ReZilient™ Rx TPEs are easy to process, biocompatible, sterilizable and certified latex, phthalate, PVC and animal-derived component free. Choose from a wide range of in-stock grades or fully customize to your exact needs, including precise color matching using our FDA-compliant PurTone™ Rx medical grade pigments.

In-Stock and Custom Grades
High Elongation and Excellent Flexibility
Biocompatible

Applications

- Extrusion
- Bumpers
- Strain Relief
- Medical Packaging
- Grip Handles
- Syringe Plungers
- Tubing
- Wound Care
- Soft Touch Surfaces
- Dental Equipment
- Membranes
- Flexible PVC Replacement





ReZilient™ Rx is Highly Customizable

- Abrasion Resistance
- Antimicrobial
- Heat and UV Stabilized
- Sterilizable
- Chemical Resistance
- Highly Flexible
- PurToneRx ™ Precise Color
- Lasermarking
- Reduce Friction with: MOBILIZERx ® Medical Grade Surface Friction Technology

ReZillient™ Rx Material Properties

Durometer (instantaneous) ASTM D2240	35A	40A	50A	60A	70A	80A	90A
Tensile Strength at 50% Elongation (psi) ASTM D412	60	85	140	220	330	510	710
Tensile Strength at 100% Elongation (psi) ASTM D412	80	115	185	280	420	615	800
Tensile Strength at 300% Elongation (psi) ASTM D412	165	225	335	470	685	980	1150
Tensile Strength at Break (psi) ASTMD412	620	790	800	900	1220	1780	1280
Tensile Elongation at Break (%) ASTM D412	850	870	730	680	660	680	380
Abrasion (mg Loss) DIN 53516	360	280	145	90	60	60	40
Melt Flow Index (g/10min, 230°C/2.16kg) ASTM D1238	50	30	20	10	5	2	10
Compression Set (%, 24 hrs, 23°C) ASTM D395	15	16	13	13	14	24	34

Compounding Solutions®

Compounding Solutions® Europe



Compounding Solutions is a global leader in custom engineered thermoplastic compounds, color concentrates and additive masterbatches for medical applications. We produce compounds of the highest quality and consistency in our controlled production area and offer complimentary technical expertise, full regulatory support, and MOQs of just 1kg in an optimized process built for speed.

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