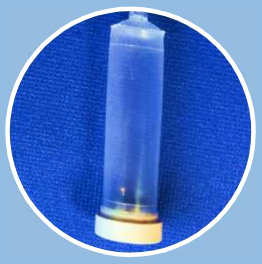
S-MED CHX

Medical-Grade Transparency with Cyclohexanone Bondability

S-MED CHX

S-MED CHX are new thermoplastic elastomer (TPE-S) compound, based on styrenic copolymers, is specifically designed for extrusion and injection molding , is suitable for welding with polar solvents such as cyclohexanone. Key properties include excellent mechanical strength, high elongation capacity, and good elastic recovery




S-MED 70E CHX - 70 ShA EXTRUSION GRADE

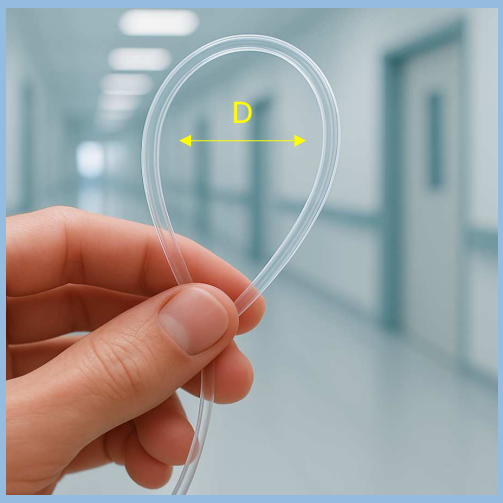
TECHNICAL INFORMATION	METHOD	UNIT	VALUE
Specific Weight	ISO 1183-1	g/cm^3	0.915
Hardness	ISO 868	Shore A	70
Tensile Strength	ISO 527	N/mm^2	14
Elongation at Break	ISO 527	%	710
MFI (190 °C/10 Kg)	ASTM D 1238	g/10 min	12

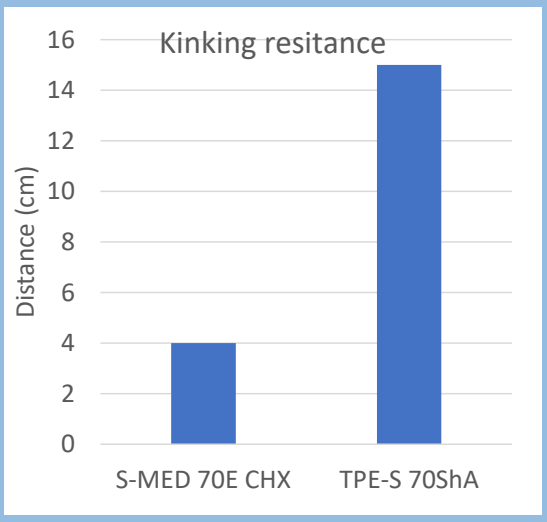
S-MED 90I CHX - 90 ShA INJECTION GRADE

TECHNICAL INFORMATION	METHOD	UNIT	VALUE
Specific Weight	ISO 1183-1	g/cm^3	0.925
Hardness	ISO 868	Shore A	92
Tensile Strength	ISO 527	N/mm^2	24
Elongation at Break	ISO 527	%	450
MFI (190 °C/5 Kg)	ASTM D 1238	g/10 min	7

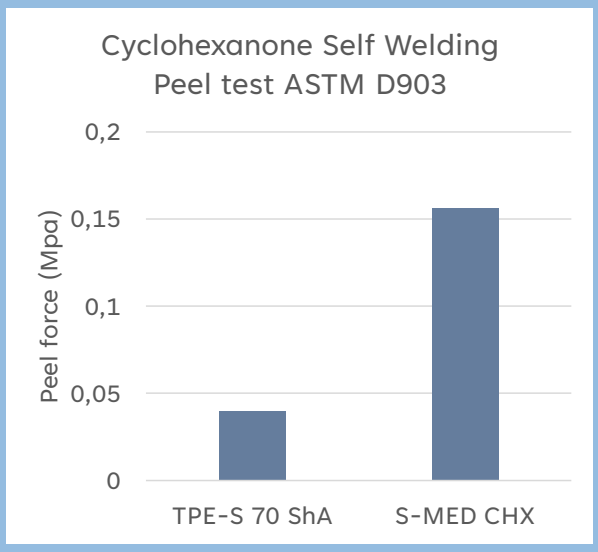
The material is compliant with Reach Reg. 1907/2006/EU, RoHS III Dir 2015/863/EU , and with medical standard: IN VITRO CYTOTOXICITY TEST ISO 10993-12:2021 + ISO 10993-5:2009 Annex A HAEMOLYSIS TEST ISO 10993-4:2017/ ASTM F756-17/ISO 10993-12:2021

S-MED 70E CHX

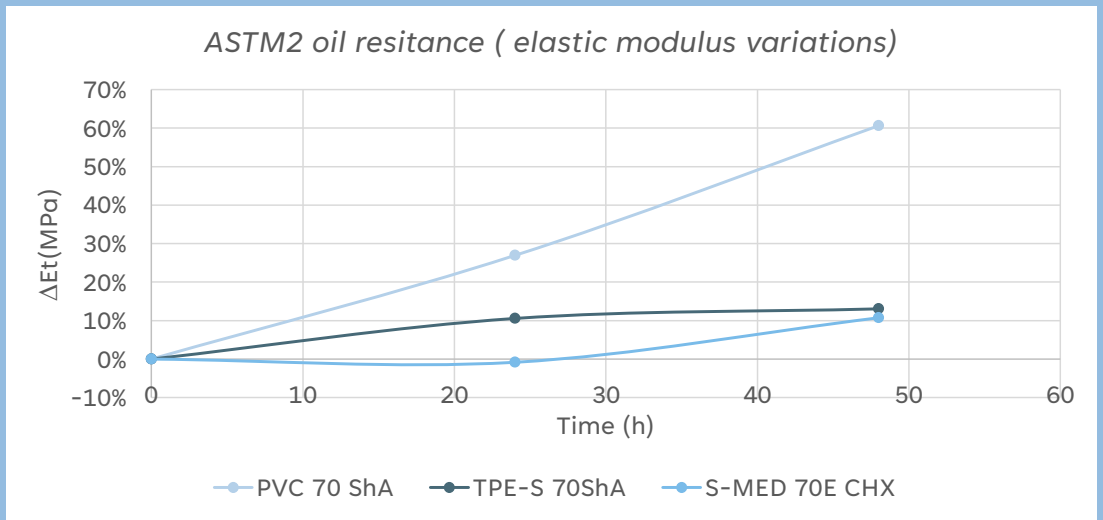




Kink resistance measured as the maximum angle before occlusion, on a tube with 6.8 mm outer diameter and 1.0 mm wall thickness

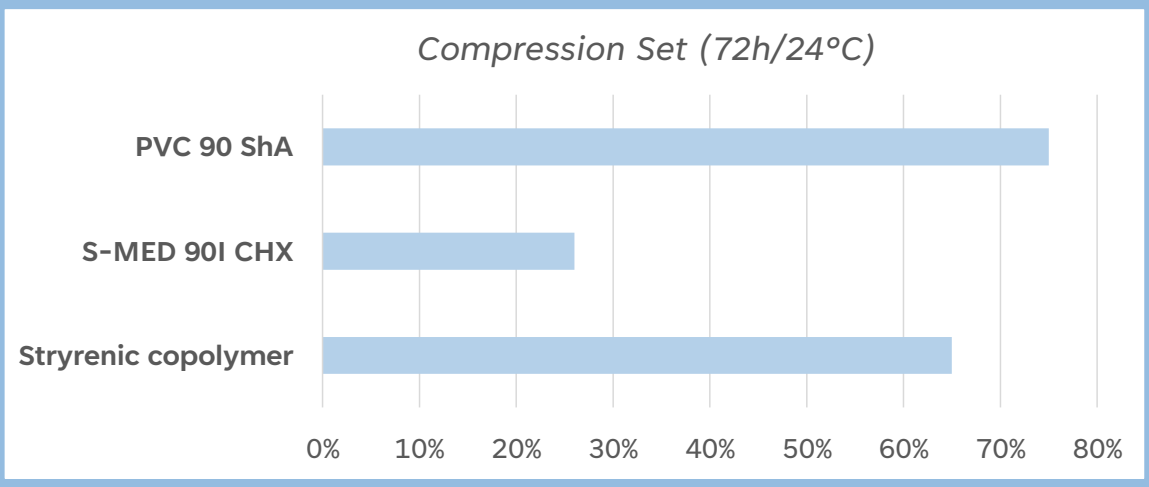


Peel force was measured on a surface area of 25x25 mm. The samples were immersed in cyclohexanone for 5 seconds and left to dry at room temperature for 24 hours prior to testing



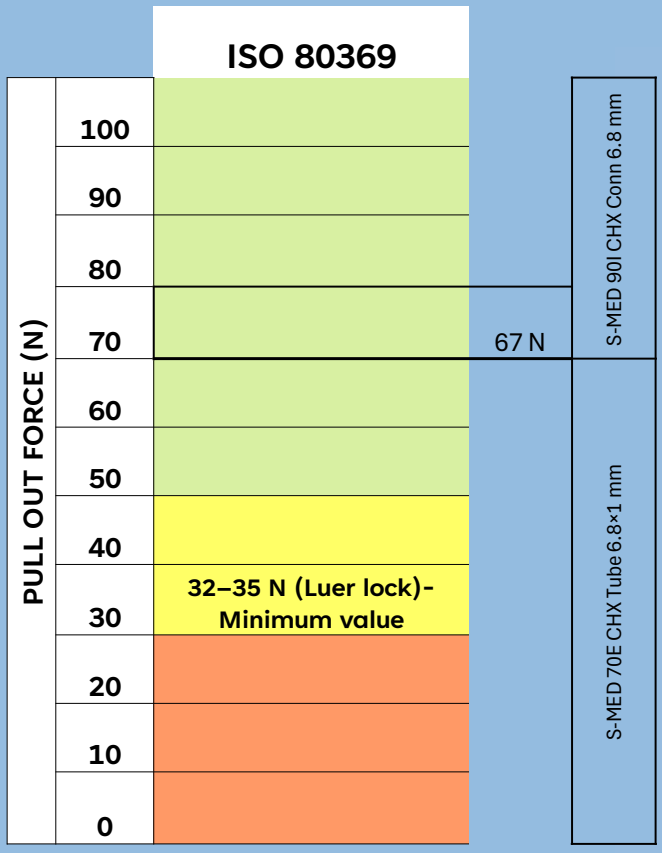
Evaluation of mechanical properties to assess resistance to lipophilic excipients

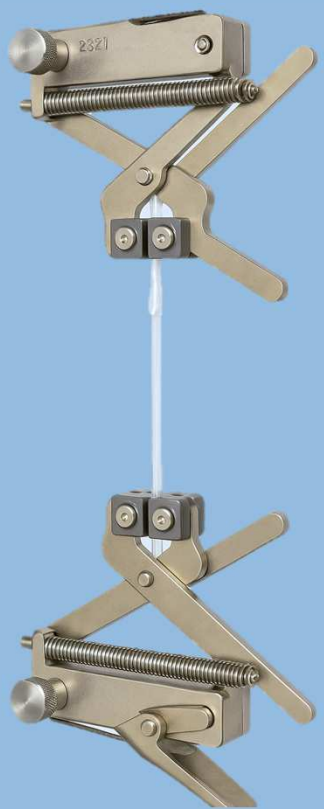
S-MED 90I CHX



Exceptional elastic behavior to ensure flexibility in applications such as drip chambers, with excellent adhesion to polar components such as ABS

High bond strength after cyclohexanone bonding





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