

Mechanical Properties for Santoprene-like Urethane



Santoprene-Like Urethane

PROPERTIES	SHORE A-40	SHORE A-50	SHORE A-60	SHORE A-70	TEST METHOD
Color	Lt. Amber	Lt. Amber	Lt. Amber	Lt. Amber	Visual
Cured Hardness, Shore D	40 A±5	50 A±5	60 A±5	70 A±5	ASTM D2240
Specific Volume, cu.in. /lb.	26.2	26.2	26.1	25.9	ASTM D792
Tensile Strength, psi	800 psi	775 psi	1400 psi	1375 psi	ASTM D638
Elongation at Break, %	525 %	450 %	500 %	400 %	
Elongation Modulus @100%	175 psi	200 psi	300 psi	500 psi	ASTM D412
Elongation Modulus @200%	300 psi	375 psi	560 psi	875 psi	
Elongation Modulus @300%	520 psi	550 psi	1010 psi	1200 psi	
Tear Strength, pli, Die C	180 pli	165 pli	195 pli	340 pli	ASTM D624
Compression Set, %	45 %	30 %	29 %	27 %	ASTM D395
Bashore Rebound	65 %	64 %	60 %	60 %	ASTM D2632
Taber Abrasion, H18 Wheel, 1000grams, 1000 cycles, mg loss	6 mg	5 mg	10.2 mg	2 mg.	ASTM D1044

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