

	DIDA	DOA	DOS	DOZ	8-10TM	TOTM	DIDP	DINP	DOTP	DOP
<b>Original Physical Properties</b>										
Hardness, pts.	67	64	68	66	75	70	70	72	70	67
100% Modulus, psi	6.6	5.2	6.0	5.9	8.1	7.6	7.4	6.6	7.4	6.2
Elongation @ Break, %	380	410	380	385	385	375	405	375	375	390
Tensile Strength, MPa	13.5	12.6	12.9	12.9	15.2	14.8	15.9	14.3	15.0	14.0
Tensile Strength, psi	1950	1825	1875	1875	2200	2150	2300	2075		2025
Specific Gravity	1.161	1.167	1.158	1.160	1.195	1.198	1.191	1.195	1.200	1.200
<b>Low Temperature</b>										
Brittle Point, °C	-53	-53	-56	-56	-33	-23	-32	-29	-34	-30
T-45,000 psi, °C	-46	-69	-69	-70	-64	-39	-40	-39	-42	-44
T-135,000 psi, °C	-61	-85	-87	-86	-86	-49	-52	-50	-54	
<b>Air Oven Aging, 3 Days @ 120°C</b>										
Tensile Change, %	-1	*	9	7	-6	-2	-3	3	1	17
Elongation Change, %	-25	*	5	-27	-3	0	-11	-20	-20	-45
Weight Change, %	12.0	-34.0	-7.0	-14.0	1.0	0.9	-3.3	-6.3	-8.3	-20.0
<b>Immersion/Extraction, Percent Weight Change After:</b>										
n-Hexane, 24h @ 23°C, DO	-34	-32	-34	-33	-33	-32	-35	-36	-38	-34
1% Soapy Water, 7d @ 90°C, DO	-10	-25	-7	-36	-1	-1	-6	-11	-12	-15
Cottonseed Oil, 24h @ 60°C	-28	-29	-28	-27	-23	-16	-21	-21	-23	-19
Distilled Water, 24h @ 60°C, DO	-1.9	-1.7	-1.8	-1.9	-0.8	-0.5	-1.1	-1.0	-0.7	-0.6
High Humidity, 9d @ 90°C, DO	-4.1	-2.3	-1.4	-11.0	-1.1	-0.7	-1.0	-1.1	-0.8	-1.0