



Opaque Formulations

ASTM Method	Description	Typical Value											
		R70-190	R70-214	R70-116	R70-005	R70-028	R70-081	R70-089	R70-091	R70-001	R70-072	R70-003(8)	R70-026(8)
	Base Elastomer Type (2)	SEBS	SEBS	SEBS	SEBS	SEBS	SEBS	SEBS	SEBS	SEBS	SEBS	SEBS	SEBS
	Color / Appearance	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque
D2240	Durometer Hardness Shore A, 1 sec.	5A	21A	30A	30A	38A	43A	45A	51A	52A	65A	76A	92A
	Thermoplastic Processing Method (4)	M	M	E/M	E/M	E/M	E/M	E	E/M	E/M	E/M	E/M	E/M
D412	Tensile @ Break, psi	270	417	1105	846	1081	1318	1640	1441	1317	1462	1230	1593
D412	Tensile Modulus, psi @ 100%	20	62	100	100	120	120	152	130	150	240	340	1010
	psi @ 300%	35	136	150	180	220	220	308	250	280	360	650	1170
D412	Elongation @ Break, %	1010	844	810	774	725	814	700	756	725	679	632	461
D412	Tensile Set @ Break, %	20	16	17	33	33	33	30	46	64	75	110	185
D412	Tensile Set @ 300% Elongation, %	4	8	6	9	8	20	7	11	25	21	37	148
D395	Compression Set, % @ 23°C	79	63	24	11	13	17	37	38	16	20	25	50
	% @ 70°C	78	78	86	63	71	46	89	85	67	60	70	74
D624	Tear Strength, ppi, Die C	54	73	124	200	146	121	268	242	130	180	310	404
D624	Tear Strength, ppi, Notched, Die B	52	63	84	150	187	91	281	302	124	135	196	409
405 (1)	Taber Abrasion, mg loss	563.6	530.0	581.0	163.0	140.0	23.0	195.6	159.3	9.0	5.7	12.0	124.6
D792	Specific Gravity	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
D746	Brittle Temp (°F)	-	-	-	-100	-100	-80	-	-	-100	-100	-	-
	Glass Transition Temp (TG, °F)	-	-	-	-	-	-	-	-	-	-95	-	-
D1238	Melt Index g/10 min. (Condition E)	6.1(7)	2.2(7)	2.4	18.1(6)	30.7(6)	0.46	13.9(6)	8.7(6)	0.18	1.1	7.1	11.7
	Blood Compatibility	-	-	-	-	-	-	-	-	Pass	-	-	-
	USP Class VI	-	-	-	-	Pass	Pass(9)	-	Pass	Pass	Pass-	Pass	Pass
	Hemolysis	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Cytotoxicity	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Pyrogen	-	-	-	-	-	-	-	-	Pass	Pass	-	-
	Muscle Implant, 1 year	-	-	-	-	-	-	-	-	Pass	-	-	-
	Ames Mutagenicity	-	-	-	-	-	-	-	-	Pass	-	-	-
	Sterilization Methods (3)												
	Steam/Autoclave (5)	NR	NR	NR	NR	NR	Pass	NR	NR	Pass	Pass	Pass	Pass
	Gamma	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	NR
	Ethylene Oxide	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Solution (cold) Sterilization	-	-	-	Pass	-	-	-	-	Pass	-	-	-

These values are not intended for specification purposes.

Specification writers should contact CPT for detailed information.

The properties indicated were measured from injection molded slabs.
The test specimens were cut perpendicular to the material flow direction.

- (1) Federal Test Method Standard
- (2) SEBS = Styrene-Ethylene/Butylene-Styrene Block Copolymer.
- (3) Information regarding sterilization is intended only as a guide. Contact CPT for specific details.
- (4) Extrusion / Molding
- (5) Not Recommended
- (6) Condition S
- (7) Condition D
- (8) Test specimens were cut parallel to the material flow direction.
- (9) Class III only.

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