

ENPRENE SBS THERMOPLASTIC ELASTOMER

Properties	Unit	Test method	Results										
			687	684	675	685	9840**	659	655	702	706	701	611
Structure			Radial	Radial	Radial	Radial	Linear	Linear	Linear	Linear	Linear	Linear	Radial
Butadiene/Styrene Ratio	-	D1416	45/55	56/44	60/40	67/33	52/48	50/50	60/40	70/30	80/20	67/33	70/30
Specific gravity	-	D792	0.93	0.92	0.91	0.91	0.93	0.97	0.95	0.93	0.92	0.93	0.93
Oil content	phr	D1416	40	50	50	45	35	-	-	-	-	-	-
Toluene sol. vis.(5.0%)	cps	ECCA 116	-	-	-	-	-	-	-	-	-	14	24
Melt index (190°C,5kgw)	g/10min	D1238	12	7	7	17	26	1	4	5	4	-	-
Hardness	shore A	D2240	88	72	62	48	80	94	88	68	56	80	83
Tensile strength	kgw/cm ²	D412	150	70	55	60	110	195	200	190	125	220	200
Tear strength	kgw/cm	D624	45	35	30	25	50	88	60	50	42	55	45
Elongation	%	D412	780	800	700	750	700	650	800	720	850	600	700
Volatile material	wt%	D1416	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.4
Ash	wt%	D1416	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Modulus (300%)	kgw/cm ²	D412	25	17	15	14	30	55	40	25	20	35	30

** It's effectively to offer clear SBS from 10A ~ 80A . Due to higher melt flow index and excellent processibility , direct injection is easily for various mould .

* test condition of melt index: 190°C - 5kg

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