

**EN CHUAN**® EN CHUAN CHEMICAL INDUSTRIES CO., LTD.

**ENPRENE 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	EC116	-	-	-	-	-	-	-	-	-	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 <sup>2</sup>	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 <sup>2</sup>	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 .

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**SBS Comparison Chart**

En Chuan	EniChem	Repsol	Shell	Fina
ENPRENE 611	Europrene SOL T 161	Calprene 411	Kraton D-1184	Finaprene 411
ENPRENE 701	Europrene SOL T 166	Calprene 501	Kraton D-1101	Finaprene 502
ENPRENE 685	Europrene SOL T 172	Calprene 485	Kraton D-4270	Finaprene 485
ENPRENE 675	Europrene SOL T 171	N/A	Kraton D-4240	Finaprene 475
ENPRENE 684	N/A	Calprene 484	Kraton D-4271	Finaprene 484
ENPRENE 787	N/A	N/A	N/A	N/A
ENPRENE 655 CLEAR	N/A	Calprene 500	Kraton D-1155JP	N/A