

GLOBALPRENE SIS					GLOBALPRENE SEP	
Grade	5516/D	5517	5561	5562U◎	Grade	8501U◎
Structure	Linear	Linear	Linear	Linear	Structure	Linear
Polystyrene Content (wt%)	16	15	18	45	Polystyrene Content (wt%)	37
Specific Gravity	0.93	0.93	0.93	0.93	Specific Gravity	0.92
Volatile Matter (%)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	Volatile Matter (%)	≤ 0.5
Ash Content (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 0.2	Ash Content (%)	≤ 0.1
25% Toluene Solution Viscosity @ 23°C (cP)	1000	800	850	175	15% Toluene Solution Viscosity @ 25°C (cP)	1000
Diblock (%)	25	38	<1	<1	Diblock (%)	100
Melt Flow Index (g/10 min) 190°C /5kg (I ² =200°C)	9	20	12 [#]	40 [#]	Melt Flow Index (g/10min), 230°C /5kg	<2
Hardness (Shore A)	32	26	43	92	Hardness (Shore A)	64
Tensile Strength* (MPa)	16	11	17	24	Tensile Strength* (MPa)	2
Elongation* (%)	1130	1100	1080	800	Elongation* (%)	<100
Form	Dense/ Porous	Porous	Porous	Porous	Form	Powder
Remark ^Δ	FDA	FDA	FDA	FDA	Remark ^Δ	

Application					Application	
Compounds & Footwear					Compounds & Footwear	●
Plastic / Film Modification	●		●		Plastic / Film Modification	●
Automotive	●	●			Automotive	
Paving & Roofing	●	●	●	●	Paving & Roofing	
Adhesives & Sealant	●	●	●	●	Adhesives & Sealant	●
Medical	●	●	●		Medical	
Flexography	●		●		Oil Gel	●

◎ : Transparent grade
 U : Undusted D : Dense pellet P : Powder form
 Δ : In compliance with FDA : 21 CFR 177.1810.
 Most mechanical properties are measured by 170°C-200°C injection molding.
 Some mechanical properties marked "*" are measured by 130°C-170°C hotpressing.

Application

TPE Compounds



- Grip, handles
- Soft-touch overmolding
- Seal and gasket
- Sporting goods and toys

Wide hardness range, easy to process, recyclable, easy to color, transparent

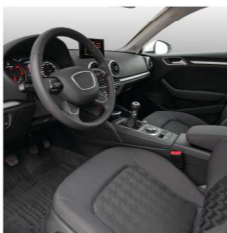
Polymer Modification



- PP, PS, nylon, PC, SPS
- PPO alloy blends
- Compatibilizer for recycling

Low temperature impact modifier, compatibilizer for polymer alloys, transparent for some applications

Automotive



- Grip, handles, automotive skin
- Weather seal
- Bumper fascia/grill

Light weight, easy to color, easy to process, low temperature impact strength, high elasticity, weather resistant

Adhesives & Sealants



- Tape and label
- Hygiene applications
- Protective film, sealant

Laminated by spray, brush and roll coating. Balance among tack, adhesion and cohesion. Wide use for different materials.

Paving & Roofing



- Polymer modified bitumen
- Roof coating
- Self-adhesive membrane

Low temperature impact strength, good elastic recovery, enhanced high and low temperature performance

Film



- Elastic film and nonwoven
- Packaging film, wrap film
- Carrier tape

Soft and flexible, high elasticity, low gel, low temperature impact strength, tie layer, broad range of products

Footwear



- Outsole
- Midsole
- Foam and foaming mat

High rebound, high damping, plasticizer free, no vulcanization, recyclable

Medical



- IV bag
- IV tubing, drip chamber
- Stopper, medical parts

Highly flexible, low extractable, transparent, plasticizer free, heat sealable, ISO 10993 & USP VI certified

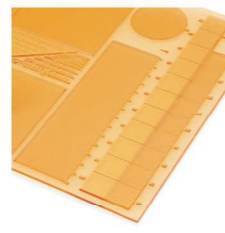
Oil Gel



- Gel candle, toy, cushion
- Optical cable filling gel
- Cosmetics

Soft, elastic recovery, transparent; thickening, rheology modifier, thixotropic agent to control flow

Flexography



- Label
- Flexible packaging
- Corrugated board

High reactivity, transparency, wide range of hardness, high strength



LCY GRIT Corp. (Office)

Tel : +886-2-27631611 Fax : +886-2-27482661
 3F., No. 85, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105, Taiwan

1 LCY GRIT Corp.

Tel : +886-7-8712268 Fax : +886-7-8712296
 No.16, Zhonglin Rd., Xiaogang Dist., Kaohsiung City 81260, Taiwan

2 Huizhou LCY Elastomers Corp.

Tel : +86-752-5599000 Fax : +86-752-5599002
 299 Shihua Dadaozhong, Dayawan Economic & Technological Development Zone, Huizhou, Guangdong, 516082, P.R.C.

3 LCY Elastomers LP

Tel : +1-281-424-6100 Fax : +1-281-424-6340
 4803 Decker Drive, Baytown, Texas 77520, USA



GLOBALPRENE

Styrenic Block Copolymer

ISO 9001, 14001 and 45001 certified



GLOBALPRENE SEBS											
Grade	7550/U [Ⓞ]	7551/U	7554/U	7533	9550/U [Ⓞ]	9551/U	9552/U [Ⓞ]	9526D [Ⓞ]	9557D [Ⓞ]	9645D [Ⓞ]	9901
Structure	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Radial	Linear MA-g
Polystyrene Content (wt%)	30	33	31	30	30	33	30	30	13	13	30
Specific Gravity	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Volatile Matter (%)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Ash Content (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 0.5	≤ 0.5	≤ 0.5	≤ 1.0
Toluene Solution Viscosity @ 25 °C (cP)	1850 20wt%	2000 10wt%	400 10wt%	300 5wt%	1850 20wt%	2000 10wt%	440 20wt%	200 25wt%	1500 20wt%	800 25wt%	4700 25wt%
Diblock (%)	<1	<1	<1	<1	<1	<1	<1	70	30	<10	<1
Melt Flow Index (g/10 min), 230 °C /5kg	<1	<1	<1	<1	<1	<1	5	>100	20	13	>10
Hardness (Shore A)	76	75	72	72	76	75	77	63	50	36	75
Tensile Strength* (MPa)	28.5	20	11	12.5	28.5	20	28	4	16.5	10	14.5
Elongation* (%)	400	350	350	300	400	350	500	300	700	850	600
Form	Powder	Powder	Powder	Powder	Powder	Powder	Powder	Dense	Dense	Dense	Dense
Remark ^Δ	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	

Application											
Compounds & Footwear	●	●	●	●	●	●	●	●	●	●	●
Plastic / Film Modification	●				●		●	●	●	●	●
Automotive		●		●		●			●	●	
Paving & Roofing	●				●		●	●	●	●	●
Adhesives & Sealant	●				●		●	●	●	●	●
Medical	●	●	●	●	●	●	●		●	●	
Oil Gel	●		●		●		●		●	●	

Ⓞ : Transparent grade
 U : Undusted D : Dense pellet P : Powder form
 Δ : In compliance with FDA : 21 CFR 177.1810.
 Most mechanical properties are measured by 170°C-200°C injection molding.
 Some mechanical properties marked "*" are measured by 130°C-170°C hotpressing.

GLOBALPRENE SBS non-oil-extended											
Grade	3411/P	3412	3414	3501/P	3520	3522	3527 [Ⓞ]	3536 [Ⓞ]	3537	3542 [Ⓞ]	3545
Structure	Radial	Radial	Radial	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear
Polystyrene Content (wt%)	30	33	40	31	31	23	25	30	35	40	45
Specific Gravity	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Volatile Matter (%)	≤ 0.5	≤ 1.0	≤ 1.0	≤ 0.5	≤ 1.0	≤ 1.0	≤ 0.5	≤ 0.5	≤ 1.0	≤ 0.5	≤ 0.5
Ash Content (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
25% Toluene Solution Viscosity @ 23 °C (cP)	>20000	20000	480 @25 °C	5500	1100	650	1900	1000	4500	1250	160
Diblock (%)	10	20	25	10	75	78	<1	<1	35	<1	65
Melt Flow Index, (g/10 min) 190 °C /5kg (#=200 °C)	<1	<1	10	<1	8	15	8	9 [#]	<1	2 [#]	55
Hardness (Shore A)	80	86	89	78	65	46	62	69	85	90	88
Tensile Strength (MPa)	21*	20*	24	19*	4	2	7	11	23*	20	9
Elongation (%)	640*	780*	760	730*	1030	800	800	550	1000*	500	600
Form	Porous/Powder	Porous	Porous	Porous/Powder	Porous	Porous	Porous	Porous	Porous	Porous	Porous
Remark ^Δ	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA

Application											
Compounds & Footwear	●	●	●	●	●	●	●	●	●	●	●
Plastic / Film Modification							●	●		●	
Automotive											
Paving & Roofing	●	●	●	●	●	●			●		
Adhesives & Sealant	●	●	●	●	●	●	●	●		●	●
Medical							●	●		●	
Flexography							●	●			

GLOBALPRENE SBS non-oil-extended					GLOBALPRENE SBS oil-extended					
Grade	3546 [Ⓞ]	3566	3710	3741	Grade	1475	1485	1487	1546	1502
Structure	Linear	Linear	Linear	Radial	Structure	Radial	Radial	Radial	Linear	Linear
Polystyrene Content (wt%)	40	30	30	30	Polystyrene Content (wt%)	40	32	55	40	31
Specific Gravity	0.94	0.94	0.94	0.94	Specific Gravity	0.91	0.91	0.94	0.95	0.94
Volatile Matter (%)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 1.0	Volatile Matter (%)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.2	≤ 0.5
Ash Content (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	Ash Content (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
25% Toluene Solution Viscosity @ 23 °C (cP)	600	1050	3500	12000 @25 °C	Extended Oil (%)	33.3	31	28.5	25	33
Diblock (%)	<1	10	<1	10	Diblock (%)	10	10	10	<1	<1
Melt Flow Index, (g/10 min) 190 °C /5kg (#=200 °C)	6	6	<1	<1	Melt Flow Index (g/10 min), 190 °C /5kg	5	8	12	>50	11
Hardness (Shore A)	90	69	62	82	Hardness (Shore A)	65	47	92	55	43
Tensile Strength (MPa)	30	17	18*	16	Tensile Strength(MPa)	8.5	6.5	12.5	8	12
Elongation (%)	610	600	820*	550	Elongation (%)	640	650	540	800	1100
Form	Porous	Porous	Porous	Porous	Form	Porous	Porous	Porous	Dense	Porous
Remark ^Δ	FDA	FDA	FDA	FDA	Remark					

Application					Application					
Compounds & Footwear	●	●	●	●	Compounds & Footwear	●	●	●	●	●
Plastic / Film Modification		●			Plastic / Film Modification					●
Automotive					Automotive					
Paving & Roofing			●	●	Paving & Roofing					
Adhesives & Sealant	●	●	●	●	Adhesives & Sealant				●	
Medical	●				Medical					●
Flexography					Flexography			●		●

The information contained in this catalogue are typical values, we believe that the above information is true and accurate, however, no such information on any findings or recommendations do warrant or guarantee, and authors of these materials, or any entities LCY group does not accept any legal obligation or responsibility. Also, any information may be understood as the use of this information conflicts with the existing patents any product recommendations. With this information or information relates to any loss or injury caused by any act, all LCY group entity does not bear any responsibility.