



VECTOR™ SIS GRADES
The Creative Direction in Styrenic Block Copolymers



DEXCO POLYMERS LP
a Dow/ExxonMobil Venture

www.dexcopolymers.com

GRADE	STRUCTURE ⁽¹⁾	STYRENE %	MELT FLOW RATE ⁽²⁾ dg/min	DIBLOCK %	ASH %	VOLATILES %	SOLUTION VISCOSITY ⁽³⁾ cps	TENSILE STRENGTH ⁽⁴⁾ psi	ELONGATION %	SPECIFIC GRAVITY	HARDNESS Shore A ⁽⁵⁾	PRODUCT FORM
4111A	SIS	18	12	<1	0.3	0.2	880	4000	1200	0.93	39	Dense Pellet
4113A	SIS/SI	15	10	18	0.3	0.2	1200	2900	1300	0.92	32	Dense Pellet
4114A	SIS/SI	15	25	42	0.5	0.2	730	1700	1500	0.92	24	Dense Pellet
4211A	SIS	30	13	<1	0.2	0.2	300	3500	900	0.94	62	Dense Pellet
4215A	SIS/SI	30	9	18	0.3	0.2	720	2600	1000	0.94	58	Dense Pellet
4230	(SI)n	20	14	30	0.3	0.3	—	1940	1075	0.94	45	Dense Pellet
4411A	SIS	44	40	<1	0.2	0.2	120	3000	750	0.96	87	Dense Pellet

Values given are typical and should not be interpreted as specifications

(1) STRUCTURE or COMPOSITION:

S = Styrene; I=Isoprene; B=Butadiene
SIS = Linear styrene-isoprene-styrene triblock copolymer
SI = Styrene-isoprene diblock copolymer
(SI)n = Radial styrene-isoprene block copolymer

(2) MELT FLOW RATE:

ASTM D 1238, 200°C/5 kg

(3) SOLUTION VISCOSITY:

25.0 Wt. % in Toluene

(4) TENSILE STRENGTH:

ASTM D 412, compression molded plaques

(5) HARDNESS:

ASTM D 2240, 1 sec. dwell

VECTOR styrenic block copolymers find use under certain FDA regulations as articles or as ingredients in articles intended for food contact or medical applications. Please contact your Dexco Polymers agent for a detailed letter of certification or further information.



VECTOR™ SBS GRADES
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GRADE	STRUCTURE ⁽¹⁾	STYRENE %	MELT FLOW RATE ⁽²⁾ dg/min	DIBLOCK %	ASH %	VOLATILES %	OIL CONTENT %	SOLUTION VISCOSITY ⁽³⁾ cps	TENSILE STRENGTH ⁽⁴⁾ psi	ELONGATION %	SPECIFIC GRAVITY	HARDNESS SHORE A ⁽⁵⁾	PRODUCT FORM
2411	(SB)n	30	<1	12	0.5	0.3	0	21**	4000	725	0.94	71	Porous Pellet
2411P	(SB)n	30	<1	12	5.0	0.3	0	21**	4000	725	0.94	71	<12 Mesh Powder
2518	SBS	31	6*	<1	0.7	0.3	0	1200	4500	725	0.94	78	Porous Pellet
2518P	SBS	31	6*	<1	5.0	0.3	0	1200	4500	725	0.94	78	<12 Mesh Powder
4461	SBS	43	23	<1	0.5	0.4	0	850	4500	700	0.96	87	Porous Pellet
6241	SBS	43	23	<1	0.7	0.4	0	850	4500	800	0.96	87	Porous Pellet
6507	SBS	43	23	<1	0.7	0.3	0	850	4500	700	0.96	88	Porous Pellet
7400	SBS	31	18	<1	0.6	0.3	33	–	2900	1220	0.90	47	Porous Pellet
8508	SBS	29	12	<1	0.8	0.4	0	400	4500	900	0.94	65	Porous Pellet

Values given are typical and should not be interpreted as specifications

(1) STRUCTURE or COMPOSITION:
SBS = Linear styrene-butadiene-styrene triblock copolymer
(SB)n = Radial styrene-butadiene block copolymer

(2) MELT FLOW RATE:
ASTM D 1238, 200°C/5 kg
*ASTM D 1238 modified, 200°C/10 kg, 0.1564" die

(3) SOLUTION VISCOSITY:
25.0 Wt. % in Toluene
**5.0 Wt. % in Toluene

(4) TENSILE STRENGTH:
ASTM D 412, compression molded plaques

(5) HARDNESS:
ASTM D 2240, 1 sec. dwell

FDA Regulated Applications – VECTOR styrenic block copolymers (with the exception of 2411P and 2518P) find use under certain FDA regulations as articles or as ingredients in articles intended for food contact or medical applications. Depending upon application, letters of certification will be provided upon request.