



Chlorinated Polyethylene「ELASLEN®」 Grade List

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Item	Method	Unit	Non-crystalline									Semi-crystalline					
			301MA	301AS	351AYS	401AY	302NAC	352NA	402NA	303A	353AY	252B	202KB	303BS	352GB	402B	404B
Shape	-	-	powder	powder	powder	powder	powder	powder	powder	powder	powder	powder	powder	powder	powder	powder	

Requirements at Time of Manufacture

(Basic Property)																	
Chlorine Content	SDK method	wt%	30.0~33.0	29.0~33.0	32.0~37.0	37.5~41.5	26.5~29.5	33.5~36.5	37.5~40.5	30.0~33.0	33.0~36.0	22.0~25.0	22.0~25.0	30.0~33.0	34.0~37.0	37.5~41.5	38.0~41.0
Specific Gravity	JIS K7112	-	1.10~1.14	1.10~1.14	1.12~1.19	1.18~1.22	1.08~1.13	1.13~1.17	1.18~1.22	1.10~1.14	1.14~1.18	1.05~1.09	1.05~1.09	1.12~1.15	1.16~1.20	1.19~1.23	1.19~1.23
Water	SDK method	wt%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0

The below are typical values ,and not guaranteed.

(Melting Property)																	
Melt Flow Rate	JIS K7210 180°C 21.6kg	g/10min	0.1	1.7	1.8	1.6	12	9.0	8.0	120	65	3.0	9.0	25	0.8	1.2	25
Mooney Viscosity	JIS K6300 (121°C)ML1+4	-	-	85	90	105	45	55	65	20	20	-	-	-	-	-	-
(Physical Property)																	
Crystallinity	DSC	J/g	<2	<2	<2	<2	<2	<2	<2	<2	<2	20	23	50	20	10	29
(Mechanical Property)																	
Tensile Strength	JIS K6251	MPa	11.8	11.1	10.5	9.9	9.8	7.8	6.9	6.9	5.2	14.0	11.0	11.1	12.7	15.0	16.7
Elongation	"	%	900	950	1000	800	1100	950	700	800	1200	850	700	800	400	500	550
100% Modulus	"	MPa	1.0	1.0	0.9	0.9	1.1	0.8	0.9	1.5	0.8	3.1	3.8	2.9	2.5	2.5	2.5
Hardness	JIS K6253	JIS A	60	58	56	58	58	54	58	60	50	82	82	78	76	65	80
Brittle Temp	JIS K6261	°C	<-70	<-70	<-70	<-70	<-70	-65	-55	<-70	<-70	-60	-60	-60	-60	-55	-55
Freezing Point	"	°C	-32	-32	-24	-15	-33	-28	-15	-24	-28	-27	-27	-16	-17	-8	-1
(Electrical Property)																	
Volume Resistivity	ASTM D257	Ω-cm	2 × 10 ¹⁵	3 × 10 ¹⁵	2 × 10 ¹⁵	1 × 10 ¹⁵	3 × 10 ¹⁵	2 × 10 ¹⁵	1 × 10 ¹⁵	3 × 10 ¹⁵	2 × 10 ¹⁵	4 × 10 ¹⁶	4 × 10 ¹⁶	4 × 10 ¹⁵	3 × 10 ¹⁶	1 × 10 ¹⁶	2 × 10 ¹⁵
Dielectric Tangent	ASTM D150	-	1 × 10 ⁻²	1 × 10 ⁻²	2 × 10 ⁻²	4 × 10 ⁻²	1 × 10 ⁻²	2 × 10 ⁻²	4 × 10 ⁻²	1 × 10 ⁻²	2 × 10 ⁻²	5 × 10 ⁻³	5 × 10 ⁻³	7 × 10 ⁻³	9 × 10 ⁻³	1 × 10 ⁻²	9 × 10 ⁻³
Dielectric Content	"	%	4.3	4.3	4.5	4.7	4.3	4.5	4.7	4.3	4.5	3.6	3.6	3.7	4.0	4.4	4.0

Application																	
	○: most suitable ○: applicable	Cable jacket															
	Rigid PVC modifier	○	○	○	○							○	○	○	○	○	○
	Flexible PVC modifier			○	○							○	○	○	○	○	○
	FR ABS modifier										○	○	○	○	○	○	○
	Rubber	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○
	Magnetic rubber	○	○	○		○	○	○	○								

Our responsibility on this product is limited to the Requirements at Time of Manufacture.

You shall not use ELASLEN as the raw materials or the additives of the products which are ingested into, implanted in or contact with human body, including but not limited to, pharmaceuticals, medical device, food or cosmetic.

We recommend you to consult with us before use because the applications as specified above are examples.

Read the Material Safety Data Sheet (MSDS) before use.

The design of ELASLEN listed above may change for improvement without previous notice.

Revision 3 Date: May. 27, 2015

Revision 2 Date: Nov. 4, 2014

Revision 1 Date: May. 19, 2014

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