

**Styrene (base) Thermoplastic Elastomer
Properties of RABALON Specialty Grades**

Item	Method	Unit	Low Hardness		Transparency		
			T320C	T331C	FJ5371C	FJ6371C	FJ7371C
Density	ISO 1183	g/cm ³	0.89	0.89	0.89	0.89	0.89
MFR (230 degC, 21.2N)	ISO 1133	g/10min	0.5	0.7	55	55	55
Hardness (Type A durometer)	ISO 7619-1	—	15	24	54	64	74
Stress at 100% Elongation	ISO 37	MPa	0.2	0.3	1.4	2	3
Tensile Strength at Break		MPa	3	3	8	7	8
Elongation at Break		%	700	700	700	650	650
Tear Strength	ISO 34	N/mm	11	16	30	37	43
Compression Set (70°C × 22hr)	ISO 815 *1	%	31	34	—	—	—
HAZE(2mmt)	ISO 14782	%	—	—	9	16	23

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- Please pay attention to the patents owned by other companies.
- In the case of application touched to the human body, medical use and food contacting application, please consult us before using o
- Please let us know if there are any other queries or if we can help you in any way.
- *1; 6 sheets (each thickness=2mm)

Styrene (base) Thermoplastic Elastomer

Properties of RABALON "PJ" Series for Medical contact application

<Please confirm about conformity for medical application and adjustability for sterilization test to us.>

Item	Method	Unit	PJ4300C	PJ5300C	PJ6300C	PJ7300C	PJ8300C	PJ9300C
Density	ISO 1183	g/cm ³	0.89	0.89	0.89	0.89	0.89	0.9
MFR (230 degC, 21.2N)	ISO 1133	g/10min	0.4	4	6	8	16	12
Hardness (Type A durometer)	ISO 7619-1	—	33	45	57	67	78	90
Stress at 100% Elongation	ISO 37	MPa	0.6	1	1.4	2.1	3.1	5.6
Tensile Strength at Break		MPa	9	10	13	16	16	21
Elongation at Break		%	1000	950	900	900	850	750
Tear Strength	ISO 34	N/mm	17	20	25	33	39	40
Compression Set (70°C × 22hr)	ISO 815 *1	%	35	40	42	47	50	56
Color	—	—	Translucence					
Conformity for medical application	*2	—	Conformable					
Adjustability for sterilization test	—	—	Autoclaving, EOG					

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- *2; Japanese Pharmacopoeia XV, test methods for plastic containers

Styrene (base) Thermoplastic Elastomer
Properties of RABALON "M" Series for Food contact application

Item	Method	Unit	Injection					
			MJ4300C	MJ5302C	MJ6301C	MJ7301C	MJ8301C	MJ9301C
Density	ISO 1183	g/cm ³	0.89	0.89	0.89	0.89	0.89	0.9
MFR (230 degC, 21.2N)	ISO 1133	g/10min	2	4	5	15	40	0.5
Hardness (Type A durometer)	ISO 7619-1	—	39	44	57	68	79	83
Stress at 100% Elongation	ISO 37	MPa	0.8	1.5	1.8	2.5	3.5	4
Tensile Strength at Break		MPa	12	13	15	15	18	30
Elongation at Break		%	1000	950	950	900	850	800
Tear Strength	ISO 34	N/mm	19	25	30	35	40	55
Compression Set (70°C × 22hr)	ISO 815 *1	%	35	37	44	48	55	50
Color	—	—	Translucence					
Adjustability for food application	—	—	Please follow the food and food additive regulation in your country.					

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**Styrene (base) Thermoplastic Elastomer
Properties of RABALON "QE" Series**

Item	Method	Unit	Automobile interior/ Injection		Automobile/ Extrusion		General/ Extrusion	
			QE128ATH	QE129ATH	QE546AT	QE548AE	QE528BTC	QE5700
Density	ISO 1183	g/cm ³	0.93	0.93	0.93	0.98	0.98	1.1
MFR (230 degC, 21.2N)	ISO 1133	g/10min	45	41	3	0.4	—	—
MFR (230 degC, 49N)	ISO 1133		—	—	—	—	18	8
Hardness (Type A durometer)	ISO 7619-1	—	67	78	73	90	73	75
Stress at 100% Elongation	ISO 37	MPa	2.7	3.8	2.7	6.1	2.8	2.8
Tensile Strength at Break		MPa	6	7	13	19	12	7
Elongation at Break		%	550	550	800	850	800	850
Compression Set (70°C × 22hr)	ISO 815 *1	%	—	—	42	—	40	55

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Styrene (base) Thermoplastic Elastomer

Properties of RABALON "SJ" Series for General purpose application (Translucence)

Item	Method	Unit	General purpose application					
			SJ4300C	SJ5300C	SJ6300C	SJ7300C	SJ8300C	SJ9300C
Density	ISO 1183	g/cm ³	0.89	0.89	0.89	0.89	0.89	0.9
MFR (230 degC, 21.2N)	ISO 1133	g/10min	2	4	5	15	40	0.5
Hardness (Type A durometer)	ISO 7619-1	—	38	44	55	66	78	83
Stress at 100% Elongation	ISO 37	MPa	0.8	1.5	1.8	2.5	3.5	4
Tensile Strength at Break		MPa	11	13	15	15	18	25
Elongation at Break		%	1000	950	950	900	850	800
Tear Strength	ISO 34	N/mm	19	25	30	35	40	55
Compression Set (70°C × 22hr)	ISO 815 *1	%	35	37	45	48	55	49
Color	—	—	Translucence					

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Styrene (base) Thermoplastic Elastomer
Properties of RABALON "SJ" Series for General purpose application

Item	Method	Unit	General purpose application					
			SJ4400	SJ5400	SJ6400	SJ7400	SJ8400	SJ9400
Density	ISO 1183	g/cm ³	1.1	1.1	1.1	1.1	1.1	1.1
MFR (230 degC, 21.2N)	ISO 1133	g/10min	0.2	1	3	6	9	17
Hardness (Type A durometer)	ISO 7619-1	—	40	49	60	70	79	88
Hardness (Type D durometer)			—	—	—	—	—	27
Stress at 100% Elongation	ISO 37	MPa	0.6	1	1.5	2	2.5	4.4
Tensile Strength at Break		MPa	5	6	7	9	10	11
Elongation at Break		%	850	850	800	800	800	750
Tear Strength	ISO 34	N/mm	19	22	25	30	35	41
Compression Set (70°C × 22hr)	ISO 815 *1	%	35	35	43	48	55	64
Color	—	—	N: Natural , B: Black					

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