

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

Item	Method	Unit	Low Hardness		Transparency		
			T320C	T331C	FJ5371C	FJ6371C	FJ7371C
Density	ISO 1183	g/cm3	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; 6sheets (each thickness=2mm)

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## 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 <sup>3</sup>	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

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## 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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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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