

## Properties of RABALON "SJ" Series for Injection Process.

Item	Method	Unit	SJ4400N/B	SJ5400B/N	SJ6400B/N	SJ7400B/N	SJ8400B/N	SJ9400B/N	
			Injection						
Density	JIS K7112-1999	g/cm <sup>3</sup>	1.1	1.1	1.1	1.1	1.1	1.1	
MFR(230°C, 21.2N)	JIS K7210-1999	g/10min	0.2	1	3	6	9	17	
Spiral flow(220°C, 80MPa)	Mitsubishi chemical method	mm	1400<	1400<	1400<	1400<	-	-	
Hardness Duro-A	JIS K6253-1993	-	43	53	63	72	80	90	
Hardness Duro-D			-	-	-	-	-	43	
Tensile modulus(100%)	JIS K6251-1993	MPa	0.6	1	1.5	2	2.5	4.4	
Tensile modulus(300%)			1.2	1.8	2.5	3	3.9	5.9	
Tensile strength at break			5.5	6.5	7.5	9	10	12	
Tensile elongation at break		%	900	850	820	800	750	700	
Tear strength	JIS K6252-1993	N/mm	19	22	25	30	35	41	
Compression set(70°C×22hr)	JIS K6262-1993	%	35	39	43	48	55	62	
Tension set(100%)	Mitsubishi chemical method	%	6	8	8	10	12	15	
Izod impact strength(-40°C)	JIS K7110-1984	KJ/m <sup>2</sup>	NB	NB	NB	NB	NB	NB	
Ozone resistance	Mitsubishi chemical method	—	stable	stable	stable	stable	stable	stable	
Brittle Temp.	JIS K7216-1990	°C	<-60	<-60	<-60	<-60	<-60	<-60	
Heat resistance	Mitsubishi chemical method	°C	125	-	135	-	145	-	
Mold shrinkage(MD/TD)	Mitsubishi chemical method	%	2.0/1.1	-	1.5/1.1	-	1.2/0.8	-	
Color	-	-	Black&Natural	Black&Natural	Black&Natural	Black&Natural	Black&Natural	Black&Natural	

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## Properties of RABALON "MJ" Series for Injection Process.

Mitsubishi Chemical Corporation  
Performance Polymers Department

Item	Method	Unit	MJ4300C	MJ5302C	MJ6301C	MJ7301C	MJ8301C	MJ9301C
			Injection					
Density	JIS K7112-1999	g/cm <sup>3</sup>	0.89	0.89	0.89	0.89	0.89	0.89
MFR(230°C、21.2N)	JIS K7210-1999	g/10min	1.5	1	3	16	26	5
Spiral flow(220°C、80MPa)	Mitsubishi chemical method	mm	1400<	-	1400<	-	-	-
Hardness Duro-A	JIS K6253-1993	-	45	50	60	70	80	85
Tensile modulus(100%)	JIS K6251-1993	MPa	0.8	1.5	1.8	2.5	3.5	4
Tensile modulus(300%)			1.4	2.3	2.5	3.5	4.5	5.5
Tensile strength at break			10	12	14	15	16	23
Tensile elongation at break		%	970	960	920	920	890	800
Tear strength	JIS K6252-1993	N/mm	19	26	30	36	42	59
Compression set(70°C×22hr)	JIS K6262-1993	%	36	38	40	44	48	48
Tension set(100%)	Mitsubishi chemical method	%	5	7	8	10	12	14
Heat resistance	Mitsubishi chemical method	°C	125	130	135	140	145	145
Mold shrinkage (MD/TD)	Mitsubishi chemical method	%	2.0/1.1	-	1.7/1.0	-	1.4/0.8	-

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## Properties of RABALON "SE ·ME" Series for Extrusion Process.

Item	Method	Unit	SE5400B·N	SE6400B·N	SE7400B·N	SE8400B·N	ME5301C	ME6301C
			Extrusion					
Density	JIS K7112-1999	g/cm <sup>3</sup>	1.1	1.1	1.1	1.1	0.89	0.89
MFR(230°C, 21.2N)	JIS K7210-1999	g/10min	0.3	0.4	0.5	1.0	0.5	0.7
Hardness Duro-A	JIS K6253-1993	-	55	65	75	85	50	60
Tensile modulus(100%)	JIS K6251-1993	MPa	2.7	3.4	3.7	4.4	2	2.6
Tensile modulus(300%)			3.9	4.5	5.1	6.3	3.9	4.7
Tensile strength at break			8	11	12	13	10	14
Tensile elongation at break		%	800	800	800	750	830	850
Tear strength	JIS K6252-1993	N/mm	34	42	48	53	25	26
Compression set(70°C×22hr)	JIS K6262-1993	MPa	35	37	40	45	37	38
Tension set(100%)	Mitsubishi chemical method	%	10	12	13	15	7	8
Izod impact strength(-40°C)	JIS K7110-1984	KJ/m <sup>2</sup>	NB	NB	NB	NB	NB	NB
Ozone resistance	Mitsubishi chemical method	—	Good	Good	Good	Good	Good	Good
Brittle Temp.	JIS K7216-1990	°C	<-60	<-60	<-60	<-60	<-60	<-60
Heat resistance	Mitsubishi chemical method	°C	130	135	140	145	130	130

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## Properties of RABALON - super low hardness grades

Item	Method	Unit	<b>T320C</b>	<b>T331C</b>	<b>SR04</b>
Density	JIS K7112-1999	g/cm <sup>3</sup>	0.89	0.89	0.89
MFR(230°C、21.2N)	JIS K7210-1999	g/10min	0.5	0.7	0.3
Hardness Duro-A	JIS K6253-1993	-	15	25	40
Tensile strength at break	JIS K6251-1993	MPa	4	5	10
Tensile elongation at break		%	880	780	840
Tear strength	JIS K6252-1993	N/mm	11	16	33
Compression set(70°C×22hr)	JIS K6262-1993	MPa	35	37	78
Tension set(100%)	Mitsubishi chemical method	%	6	6	3

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## Properties of RABALON "FJ" Series for Injection Process.

Item	Method	Unit	FJ5350C	FJ6350C	FJ7350C	FJ8350C
Density	JIS K7112-1999	g/cm <sup>3</sup>	0.89	0.89	0.89	0.89
MFR(230°C、21.2N)	JIS K7210-1999	g/10min	1.5	2	6	10
Hardness Duro-A	JIS K6253-1993	-	50	60	70	85
Tensile modulus(100%)	JIS K6251-1993	MPa	1.1	1.5	2	3.5
Tensile modulus(300%)			2	2.4	3	4.5
Tensile strength at break			10	11	11	11
Tensile elongation at break		%	900	900	820	700
Tear strength	JIS K6252-1993	MPa	27	28	33	47
Compression set(70°C×22hr)	JIS K6262-1993	%	44	49	54	61
Mold shrinkage (MD/TD)	Mitsubishi chemical method	%	2.0/1.2	1.9/1.1	1.5/1.1	1.3/1.1

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**Properties of RABALON *Transparent* "FJ" Series for Injection Process.**

Item	Method	Unit	FJ5370C	FJ6370C	FJ7370C
Density	JIS K7112-1999	g/cm <sup>3</sup>	0.89	0.89	0.89
MFR(230°C、21.2N)	JIS K7210-1999	g/10min	39	38	42
Hardness Duro-A	JIS K6253-1993	-	52	62	72
Tensile modulus(100%)	JIS K6251-1993	MPa	1.3	1.9	2.9
Tensile modulus(300%)			2.4	3.2	4.2
Tensile strength at break			8	9	10
Tensile elongation at break		%	700	700	700
Haze(2mmt)	JIS K7136-2000	%	13	13	14
Haze(3mmt)		%	19	33	39
Haze(4mmt)		%	24	42	53
Mold shrinkage (MD/TD)	Mitsubishi chemical method	%	2.0/1.0	1.5/1.0	1.2/1.0

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