

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 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

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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 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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