

ULTZEX^R (Injection, Roto, Blow) Product Data Sheet

| Testing Items | | Unit | Testing Method *1 | | | Injection Molding | | | | | Rotomolding | Blow Molding |
|-----------------------------|-------------------------|-------------------|-------------------|----------------|-------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|----------------------------|---|
| | | | JIS K | ISO | ASTM | 15150J | 20100J | 20200J | 25100J | 4570 | 3550R | 2020SB |
| General Physical Properties | Melt Index | g/10min | 7210 | 1133 | | 15 | 8.5 | 18.5 | 10 | 7.0 | 4.6 | 1.6 |
| | Density | kg/m ³ | 7112 | 1183 | | 914 | 916 | 918 | 924 | 945 | 931 | 920 |
| Mechanical Properties | Tensile Stress At Yield | MPa | 7161 7162 | 527-1 527-2 | | 9 | 9 | 8.9 | 9.7 | 18 | 13 | - |
| | Tensile Stress At Break | MPa | | | | 19 | 17 | >15 | >15 | >27 | >25 | 16 |
| | Elongation At Break | % | | | | >500 | >500 | >500 | >500 | >500 | >500 | >500 |
| | Flexus Modulus | MPa | 7171 | 178 | | 160 | 160 | 200 | 240 | 660 | 410 | 190 |
| | Charpy Impact Strength | kJ/m ² | 7111 | 179-1 | | NB | NB | NB | NB | 18 | NB | NB |
| | Shore D Hardness | - | 7215 | 868 | | 54 | 54 | 56 | 57 | 60 | 62 | 51 |
| Chemical Properties | E.S.C.R | hours | - | - | D1693 | 70 | 300 | 20 | 200 | >600 | >600 | >1000 |
| Thermal Properties | Vicat Softening Point | | 7206 | 306 | | 92 | 95 | 94 | 98 | 115 | 115 | 101 |
| | Melting Point | | 7121 | 11357-3 | | 115 | 120 | 120 | 120 | 127 | 124 | - |
| Characteristics | | | | | | Stress Cracking Resistance | Stress Cracking Resistance | Flowability | Stiffness | High Stiffness | Stress Cracking Resistance | Impact Strength |
| | | | | | | Softness | Exterior Outlook | Stress Cracking Resistance | Stress Cracking Resistance | | | Processibility |
| | | | | | | | | | | | | Clarity |
| Main Application | | | | | | Cap | Cap | Cap | Cap | Cap | Storage Tank | Salad Sauce Container |
| | | | | | | Air-tight Container | Bottle Inner Cap | Daily Necessities | Air-tight Container | Bottle Inner Cap | Cap | Blown Pipe |
| | | | | | | Daily Necessities | Daily Necessities | Industrial Parts | Industrial Parts | Daily Necessities | Packaging | Detergent Container Cosmetic Container |

*1) Specimen preparation according to JIS K7151 (ISO293) and 7152 (ISO294) (Load at 2.16kg)
 Melt Index above 1g/10min: Injection molding specimen
 Melt Index below 1g/10min: Pressed sheet specimen

Statistics shown in the information are typical data tested under specific conditions.
 Applications usage that is mentioned in the information might not be the usage of specified grade in the end product.
 Pertaining to the usage and application recommendation information, please note the rights of the patentees.
 In the usage of medical utensile and medicinal products, please be advised to have further consultation.
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