

MORETEC® (Injection, Film) Product Data Sheet

| Testing Items | | Unit | Testing Method *1 | | | Injection | | | Film (Blown) | | | | | | | | |
|-----------------------------|-------------------------|-------------------|-------------------|----------------|-------|---------------|--------------|-----------------------------------|-------------------|-------------------|-----------------|-------------------|-----------------------|-------------------|-------------------|-------------------|-----------------|
| | | | JIS K | ISO | ASTM | 0628G | 0368R | 1018G | 0138NK | 0138H | 0138L | 0138N | 0158N | 0168N | 0168H | 0248Z | |
| General Physical Properties | Melt Index | g/10min | 7210 | 1133 | | 6.0 | 3.4 | 8.0 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 2.0 | |
| | Density | kg/m ³ | 7112 | 1183 | | 916 | 935 | 910 | 916 | 919 | 919 | 917 | 923 | 935 | 935 | 923 | |
| Mechanical Properties | Tensile Stress At Yield | Mpa | 7161 7162 | 527-1 527-2 | | 8.2 | 15 | 7.2 | 9.0 | 9.8 | 9.8 | 9.8 | 11 | 15 | 15 | 11 | |
| | Elongation At Break | % | | | 300< | 300< | 300< | 300< | 300< | 300< | 300< | 300< | 300< | 300< | 300< | 300< | 300< |
| | Flexus Modulus | Mpa | 7171 | 178 | | 200 | 460 | 140 | 170 | 190 | 190 | 190 | 230 | 490 | 490 | 230 | |
| | Charpy Impact Strength | kJ/m ² | 7111 | 179-1 | | NB | 260 | NB | NB | NB | NB | NB | 260 | NB | NB | NB | |
| | Shore D Hardness | — | 7215 | 868 | | 52 | 57 | 51 | 52 | 54 | 54 | 54 | 55 | 60 | 60 | 55 | |
| Chemical Properties | E.S.C.R | hours | — | — | D1693 | 1000< | 1000< | 1000< | 1000< | 1000< | 1000< | 1000< | <1000 | 1000< | 1000< | 1000< | |
| Thermal Properties | Vicat Softening Point | °C | 7206 | 306 | | 97 | 66 | 90 | 103 | 103 | 103 | 103 | 58 | 119 | 119 | 109 | |
| | Melting Point*2 | °C | 7121 | 11357-3 | | 119 | 125 | 117 | 117 | 119 | 119 | 119 | 121 | 125 | 125 | 121 | |
| Additive Formulation | | | | | | | | | Non Slip | High Slip | Low Slip | Non Slip | Non Slip | Non Slip | High Slip | Non Additive | |
| Characteristics | | | | | | High Strength | | Low Temperature Impact Resistance | High Strength | Processibility | Processibility | Processibility | Processibility | Processibility | Heat Resistance | Heat Resistance | |
| | | | | | | | | | Clarity | High Strength | High Strength | High Strength | High Strength | High Strength | Stiffness | Slip Property | |
| Main Application | | | | | | | Roto Molding | | Agricultural Film | Lamination Film | Lamination Film | Lamination Film | Medium Size Packaging | Lamination Film | Lamination Film | Bag-in-Box | |
| | | | | | | | | | Stretch Film | General Packaging | | General Packaging | General Packaging | General Packaging | General Packaging | General Packaging | Industrial Film |

*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

*2) Melting point: Melting peak temperature. Speed of decreasing temperature:5°C/min, Speed of increasing temperature:10°C/min

- ◇ 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.
- ◇ Please understand that the information provided herein is subjected to change without prior notice.