

NAXELL™ PC23MS

Impact Modified High MFR Polycarbonate, EZ flow

PC23MS is available in black color, internal and external lubricants and other modifications. Further information and details are available upon request.

Typical ASTM Properties

| Properties | Test Method | English Units | | S.I. Units | |
|--|-------------|---------------|-------------|------------|---------|
| | | | | | |
| GENERAL | | | | | |
| Specific Gravity | D 792 | NA | 1.19 | NA | 1.19 |
| Melt Flow Rate (300°C/1.2 kg) | D 1238 | g/10 min | 28.0 | g/10 min | 28.0 |
| Mold Shrinkage 0.125"(3.18mm) | D 955 | in/in | 0.005-0.007 | % | 0.5-0.7 |
| MECHANICAL | | | | | |
| Tensile Strength @ Yield 73°F(23°C), 0.125"(3.18mm) | D 638 | psi | 8,200 | MPa | 57 |
| Flexural Strength 73°F(23°C), 0.125"(3.18mm) | D 790 | psi | 12,500 | MPa | 86 |
| Flexural Modulus, Secant 73°F(23°C), 0.125"(3.18mm) | | psi | 290,000 | MPa | 2,000 |
| Izod Impact, notched 73°F(23°C), 0.125"(3.2mm) | D256 | ft-lb/in | 6 | J/m | 320 |
| Instrumented Impact Energy 73°F(23°C) | D 3763 | ft-lb | 29 | J | 39 |
| THERMAL | | | | | |
| Deflection Temperature, Unannealed 0.125"(3.18mm) | | | | | |
| 264 psi (1.82 MPa), Load | D 648 | °F | 250 | °C | 121 |
| 66 psi (0.45 MPa), Load | | °F | 270 | °C | 132 |
| Coefficient of Linear Thermal Expansion -40°C to 35°C(-40°F to 95°F) | D696 | in/in-°F | 3.6E-05 | m/m-°C | 6.5E-05 |

The values shown on the data sheet are typical values that have been obtained on typical MRC materials and are not intended for specification purposes. Information on this data sheet is provided without any warranty or guarantee. Each user of the material should make his own test to determine the suitability of the material for his use. Therefore, it is understood and agreed that the customer assumes and hereby releases MRC Polymers, Inc. from all liabilities, incurred in connection with the use of MRC's products, technical assistance, and information.