

| PROPERTIES | METHOD | UNIT | 1000 MC Series | | | | | | 2000 MC Series | | | | | | 3000 MC Series | | | | | | 4000 MC Series | | | | | | | | | | | | | | |
|-------------------------------|--------|---------|--|------|------|------|------|------|--|------|------|------|------|------|---|------|------|------|------|------|--|------|------|------|------|------|---|------|------|------|------|--|---|--|--|
| | | | 1053 | 1068 | 1073 | 1079 | 1087 | 1090 | 2035 | 2049 | 2064 | 2072 | 2085 | 2225 | 2245 | 2248 | 2265 | 3038 | 3050 | 3061 | 3073 | 3083 | 3226 | 3239 | 3261 | 3272 | 3282 | 4280 | 4285 | 4290 | | | | | |
| Key Attributes | | | <ul style="list-style-type: none"> High Clarity Halogen & Phthalate Free Low Density Elasticity & Kink Resistance Ease of Extrusion Processing Biocompatibility Gamma, ETO & Steam Sterilizable | | | | | | <ul style="list-style-type: none"> Clarity Halogen & Phthalate Free Low Density Kink Resistance Extrusion & Molding Grades Biocompatibility Gamma, ETO & Steam Sterilizable | | | | | | <ul style="list-style-type: none"> Elasticity Ease of Processing Select Grades Optimized for Flow Select Grades Optimized for Upper Service Temperature Overmoldable to Other Substrates | | | | | | <ul style="list-style-type: none"> Good Compression Set Halogen, Phthalate & Silicone Free X-linking Agent Free Low Density Extrusion & Molding Grades Biocompatibility Gamma, ETO & Steam Sterilizable | | | | | | <ul style="list-style-type: none"> Elasticity Ease of Processing Select Grades Optimized for Flow Select Grades Optimized for Upper Service Temperature Overmoldable to Other Substrates Recyclable & Reprocessable | | | | | | <ul style="list-style-type: none"> High Clarity Halogen & Phthalate Free Flexibility & Softness Ease of Processing Biocompatibility Gamma, ETO & Steam Sterilizable | | |
| Target Markets | | | Healthcare | | | | | | Healthcare | | | | | | Healthcare / Food & Beverage / Specialty | | | | | | Healthcare | | | | | | | | | | | | | | |
| Typical Applications | | | Medical Tubing & Films | | | | | | Medical Tubing, Film & Molded Components | | | | | | Caps, Liners, Gaskets, Seals, Stoppers, Profiles & Sheet | | | | | | Drip Chambers & Molded Parts | | | | | | | | | | | | | | |
| Physical Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Specific Gravity | D792 | g/cc | 0.89 | 0.89 | 0.90 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.87 | 0.88 | 0.89 | 0.89 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 | 0.99 | 0.98 | 0.99 | | | | |
| Mechanical Properties* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Durometer Hardness | D2240 | Shore A | 53 | 68 | 73 | 79 | 87 | 90 | 35 | 49 | 64 | 72 | 85 | 25 | 45 | 48 | 65 | 38 | 50 | 61 | 73 | 83 | 26 | 39 | 61 | 72 | 82 | 80 | 85 | 90 | | | | | |
| Tensile Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tensile Strength | D638 | MPa | 9.4 | 14.7 | 15.6 | 16.8 | 19.6 | 29.1 | 6.7 | 8.7 | 8.7 | 11.3 | 16.1 | 4.7 | 2.9 | 3.7 | 7.3 | 2.7 | 3.9 | 8.4 | 10.7 | 21.6 | 3.1 | 4.5 | 4.9 | 11.5 | 17.6 | 17.1 | 16.4 | 29.0 | | | | | |
| Elongation @ Break | D638 | % | 701 | 792 | 769 | 778 | 753 | 783 | >831 | 774 | 583 | 468 | 461 | >831 | 179 | 166 | 145 | 561 | 575 | >831 | 652 | 795 | >831 | >831 | 364 | 682 | 693 | 264 | 219 | 280 | | | | | |
| Modulus @ 100% Elong. | D639 | MPa | 1.8 | 3.1 | 3.9 | 4.2 | 6.3 | 9.7 | 1.1 | 1.9 | 3.7 | 5.9 | 8.9 | 0.9 | 2.9 | 3.6 | 7.0 | 1.3 | 1.8 | 2.3 | 4.4 | 6.2 | 0.8 | 1.1 | 3.3 | 4.1 | 6.0 | 13.0 | 13.2 | 20.0 | | | | | |
| Compression Set | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23C @ 22hr | D395B | % | 9 | 13 | 20 | 21 | 25 | 31 | - | - | - | - | - | - | - | - | - | 22 | 23 | 21 | 28 | 27 | 16 | 23 | 26 | 22 | 26 | - | - | - | | | | | |
| 70C @ 22 hr | D395B | % | 94 | 86 | 82 | 79 | 78 | 79 | - | - | - | - | - | - | - | - | - | 45 | 47 | 48 | 53 | 56 | 41 | 42 | 45 | 43 | 45 | - | - | - | | | | | |
| Melt Flow Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFI, @ 190C/2.16kg | | | - | - | - | - | - | - | - | - | - | - | - | - | 20.7 | 28.9 | 22.3 | - | - | - | - | - | 17.1 | 1.6 | - | - | - | - | - | - | | | | | |
| MFI, @ 200C/5.00kg | D1238 | g/10' | 3.7 | 4.4 | 4.6 | 5.0 | 6.8 | 7.9 | 6.2 | 5.8 | 6.4 | 7.6 | 7.7 | 10.3 | - | - | 151 | 39.0 | 11.5 | 13.9 | 9.8 | 1.8 | - | 61.6 | 15.2 | 0.20 | 0.17 | 22.4 | 31.0 | 8.3 | | | | | |
| Apparent Viscosity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200C @ 100 s-1 | D3835 | Pa.s | 1312 | 1222 | 1183 | 1120 | 996 | 900 | 1089 | 1127 | 915 | 863 | 789 | 902 | 202 | 152 | 201 | 316 | 400 | 452 | 525 | 899 | 187 | 295 | 433 | 973 | 1285 | 599 | 498 | 980 | | | | | |
| 200C @ 2000 s-1 | D3835 | Pa.s | 146 | 136 | 132 | 125 | 114 | 106 | 128 | 125 | 101 | 97 | 91 | 112 | 39 | 35 | 37 | 33 | 41 | 46 | 52 | 86 | 21 | 32 | 43 | 84 | 111 | 108 | 74 | 144 | | | | | |

* Measured on Injection Molded Test Specimens

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