



Americas: COMMERCIAL

17.5 MFR, for small, intricate parts. Improved flame retardance. Internal mold release.

| TYPICAL PROPERTIES 1 | TYPICAL VALUE | UNIT | STANDARD |
|--|---------------|------------------------|-------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 630 | kgf/cm² | ASTM D 638 |
| Tensile Stress, brk, Type I, 50 mm/min | 700 | kgf/cm² | ASTM D 638 |
| Tensile Strain, yld, Type I, 50 mm/min | 7 | % | ASTM D 638 |
| Tensile Strain, brk, Type I, 50 mm/min | 125 | % | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 980 | kgf/cm² | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 23900 | kgf/cm² | ASTM D 790 |
| Hardness, Rockwell M | 70 | - | ASTM D 785 |
| Hardness, Rockwell R | 118 | - | ASTM D 785 |
| Taber Abrasion, CS-17, 1 kg | 10 | mg/1000cy | ASTM D 1044 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 326 | cm-kgf/cm | ASTM D 4812 |
| Izod Impact, notched, 23°C | 70 | cm-kgf/cm | ASTM D 256 |
| Tensile Impact, Type S | 557 | cm-kgf/cm ² | ASTM D 1822 |
| Falling Dart Impact (D 3029), 23°C | 1728 | cm-kgf | ASTM D 3029 |
| Instrumented Impact Energy @ peak, 23°C | 633 | cm-kgf | ASTM D 3763 |
| THERMAL | | | |
| Vicat Softening Temp, Rate B/50 | 154 | °C | ASTM D 1525 |
| HDT, 0.45 MPa, 6.4 mm, unannealed | 137 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 129 | °C | ASTM D 648 |
| CTE, -40°C to 95°C, flow | 6.84E-05 | 1/°C | ASTM E 831 |
| Specific Heat | 1.25 | J/g-°C | ASTM C 351 |
| Thermal Conductivity | 0.25 | W/m-°C | ASTM C 177 |
| Relative Temp Index, Elec | 130 | °C | UL 746B |

Source, GMD, Last Update:

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Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
 All properties, expect the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294.

²⁾ Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
4) Own measurement according to UL.
5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

^{*} Lexan is a trademark of SABIC INNOVATIVE PLASTICS HOLDING BV





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|---------------------------------------|---------------|----------|--------------|
| THERMAL | | | |
| Relative Temp Index, Mech w/impact | 130 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact | 130 | °C | UL 746B |
| PHYSICAL | | | |
| Specific Gravity | 1.2 | - | ASTM D 792 |
| Specific Volume | 0.83 | cm³/g | ASTM D 792 |
| Density | 1.19 | g/cm³ | ASTM D 792 |
| Water Absorption, 24 hours | 0.15 | % | ASTM D 570 |
| Water Absorption, equilibrium, 23C | 0.35 | % | ASTM D 570 |
| Water Absorption, equilibrium, 100°C | 0.58 | % | ASTM D 570 |
| Mold Shrinkage, flow, 3.2 mm (5) | 0.5 - 0.7 | % | SABIC Method |
| Melt Flow Rate, 300°C/1.2 kgf | 17.5 | g/10 min | ASTM D 1238 |
| OPTICAL | | | |
| Light Transmission, 2.54 mm | 88 | % | ASTM D 1003 |
| Haze, 2.54 mm | 1 | % | ASTM D 1003 |
| Refractive Index | 1.586 | - | ASTM D 542 |
| ELECTRICAL | | | |
| Volume Resistivity | >1.E+17 | Ohm-cm | ASTM D 257 |
| Dielectric Strength, in air, 3.2 mm | 14.9 | kV/mm | ASTM D 149 |
| Relative Permittivity, 50/60 Hz | 3.17 | - | ASTM D 150 |
| Relative Permittivity, 1 MHz | 2.96 | - | ASTM D 150 |
| Dissipation Factor, 50/60 Hz | 0.0009 | - | ASTM D 150 |
| Dissipation Factor, 1 MHz | 0.01 | - | ASTM D 150 |
| Hot Wire Ignition (PLC) | 2 | PLC Code | UL 746A |
| High Voltage Arc Track Rate {PLC} | 2 | PLC Code | UL 746A |
| High Ampere Arc Ign, surface {PLC} | 1 | PLC Code | UL 746A |
| Comparative Tracking Index (UL) {PLC} | 2 | PLC Code | UL 746A |

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| TYPICAL VALUE | UNIT | STANDARD |
|---------------|--------------|--------------------|
| | | |
| 1.09 | mm | UL 94 |
| 5.99 | mm | UL 94 |
| F2 | - | UL 746C |
| | 1.09 5.99 | 1.09 mm 5.99 mm |

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| PROCESSING PARAMETERS | TYPICAL VALUE | UNIT | |
|-----------------------------|---------------|------|--|
| Injection Molding | | | |
| Drying Temperature | 120 | °C | |
| Drying Time | 3 - 4 | hrs | |
| Drying Time (Cumulative) | 48 | hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 280 - 305 | °C | |
| Nozzle Temperature | 275 - 300 | °C | |
| Front - Zone 3 Temperature | 280 - 305 | °C | |
| Middle - Zone 2 Temperature | 270 - 295 | °C | |
| Rear - Zone 1 Temperature | 260 - 280 | °C | |
| Mold Temperature | 70 - 95 | °C | |
| Back Pressure | 0.3 - 0.7 | MPa | |
| Screw Speed | 40 - 70 | rpm | |
| Shot to Cylinder Size | 40 - 60 | % | |
| Vent Depth | 0.025 - 0.076 | mm | |

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