

## PRODUCT DATA SHEET

TRADEMARK: UMG ABS®

**GRADE: EX19C**

|   | TEST METHOD | CONDITION           | UNIT                   | EX19C   |
|---|-------------|---------------------|------------------------|---------|
| Charpy Impact Strength,(Notched)        | ISO 179     | 23 deg.C            | kJ/m <sup>2</sup>      | 14      |
|   |             | -30 deg.C           |                        | 7       |
| Tensile Strength                        | ISO 527     | 23 deg.C            | MPa                    | 41      |
| Tensile Modulus                         |             | 23 deg.C            | MPa                    | 2250    |
| Flexural Strength                       | ISO 178     | 23 deg.C<br>2mm/min | MPa                    | 67      |
| Flexural Modulus                        |             |                     | MPa                    | 2450    |
| Rockwell Hardness                       | ISO 2039    | 23 deg.C            | R-scale                | 103     |
| T.D.U.L.                                | ISO 75      | 1.80MPa<br>Flatwise | deg.C                  | 79      |
| Density                                 | ISO 1183    | 23 deg.C            | g/cm <sup>3</sup>      | 1.05    |
| Melt Volume Flow Rate                   | ISO 1133    | 220deg.C            | cm <sup>3</sup> /10min | 55      |
| Mold Shrinkage <sup>note)</sup>         | ISO 294-4   | 23 deg.C            | %                      | 0.4-0.6 |
| Coefficient of Linear Thermal Expansion | ISO 11359-2 | -                   | cm/cm/deg.<br>C(x10-5) | 9       |
| UL Flame Rating<br>File No. E47016      | UL 94       | -                   | mm                     | 1.5 HB  |
|   |             | -                   | mm                     | -       |
|   |             | -                   | mm                     | -       |