

**ABS AF308**

ABS

LG Chem

| Processing/Physical Characteristics | Value  | Unit    | Test Standard |
|-------------------------------------|--------|---------|---------------|
| <b>ASTM Data</b>                    |        |         |               |
| Melt Flow Index, MFI                | 48     | g/10min | ASTM D 1238   |
| Temperature                         | 220    | °C      | -             |
| Load                                | 10     | kg      | -             |
| Mold Shrinkage, MD                  | 0.0055 | mm/mm   | ASTM D 955    |

| Mechanical properties                | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| <b>ASTM Data</b>                     |       |      |               |
| Tensile Modulus                      | 2158  | MPa  | ASTM D 638    |
| Tensile Strength at Yield            | 41.2  | MPa  | ASTM D 638    |
| Elongation at Yield                  | 5     | %    | ASTM D 638    |
| Elongation at Break                  | 25    | %    | ASTM D 638    |
| Flexural Modulus                     | 2354  | MPa  | ASTM D 790    |
| Flexural Strength                    | 66.7  | MPa  | ASTM D 790    |
| Rockwell Hardness                    | R 105 | -    | ASTM D 785    |
| Izod Impact notched, 1/8 in          | 189   | J/m  | ASTM D 256    |
| Izod Impact notched, 1/4 in          | 170   | J/m  | ASTM D 256    |
| Izod Impact notched, Low-Temperature | 66    | J/m  | ASTM D 256    |
| Temperature                          | -30   | °C   | -             |

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| <b>ASTM Data</b>   |       |      |               |
| UL 94 Flame rating | V-2   | -    | UL 94         |
| Thickness tested   | 1.5   | mm   | -             |
| DTUL @ 66 psi      | 90    | °C   | ASTM D 648    |
| DTUL @ 264 psi     | 82    | °C   | ASTM D 648    |
| Vicat Temperature  | 90    | °C   | ASTM D 1525   |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1130  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 70 - 80   | °C   | -             |
| Pre-drying - Time                           | 2 - 4     | h    | -             |
| Processing humidity                         | ≤0.01     | %    | -             |
| Melt temperature                            | 200 - 230 | °C   | -             |
| Mold temperature                            | 40 - 60   | °C   | -             |
| Zone 1                                      | 170 - 190 | °C   | -             |
| Zone 2                                      | 180 - 200 | °C   | -             |
| Zone 3                                      | 190 - 210 | °C   | -             |
| Screw speed                                 | 30 - 60   | rpm  | -             |
| Back pressure                               | 0.5 - 1   | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant

**Applications**

IT / Business Machine, Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America