# ULTEM™ Resin AUT200M

REGION EUROPE

## DESCRIPTION

High flow Polyetherimide (Tg 217C) with internal mold release.. Very low outgassing and plateout, for automotive lighting applications where highly metallized, reflective
surfaces are required. Haze onset temperature of 204C (SABIC IP method).

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Automotive | Automotive Under the Hood |

## TYPICAL PROPERTY VALUES

Revision 20230607

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Taber Abrasion, CS-17, 1 kg | 10 | mg/1000cy | SABIC method |
| Tensile Stress, yield, 50 mm/min | 105 | MPa | ISO 527 |
| Tensile Stress, break, 50 mm/min | 85 | MPa | ISO 527 |
| Tensile Strain, yield, 50 mm/min | 6 | % | ISO 527 |
| Tensile Strain, break, 50 mm/min | 60 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 3300 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 160 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 3300 | MPa | ISO 178 |
| Ball Indentation Hardness, H358/30 | 140 | MPa | ISO 2039-1 |
| IMPACT | | | |
| Izod Impact, unnotched 80*10*4 +23°C | NB | kJ/m² | ISO 180/1U |
| Izod Impact, unnotched 80*10*4 -30°C | NB | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 5 | kJ/m² | ISO 180/1A |
| Izod Impact, notched 80*10*4 -30°C | 5 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| Thermal Conductivity | 0.24 | W/m·°C | ISO 8302 |
| CTE, 23°C to 150°C, flow | 5.E-05 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 150°C, xflow | 5.E-05 | 1/°C | ISO 11359-2 |
| Vicat Softening Temp, Rate A/50 | 215 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/50 | 211 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/120 | 212 | °C | ISO 306 |
| HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm | 195 | °C | ISO 75/Be |
| HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm | 190 | °C | ISO 75/Ae |
| Metallized Haze Onset | 204 | °C | SABIC method |
| PHYSICAL | | | |
| Mold Shrinkage on Tensile Bar, flow | 0.5 – 0.7 | % | SABIC method |
| Density | 1.27 | g/cm³ | ISO 1183 |
| Water Absorption, (23°C/saturated) | 1.25 | % | ISO 62-1 |
| Moisture Absorption (23°C / 50% RH) | 0.7 | % | ISO 62 |
| Melt Volume Rate, MVR at 340°C/5.0 kg | 13 | cm³/10 min | ISO 1133 |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| INJECTION MOLDING | | | |
| Drying Temperature | 150 | °C | |
| Drying Time | 4 – 6 | Hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 370 – 410 | °C | |
| Nozzle Temperature | 350 – 405 | °C | |
| Front - Zone 3 Temperature | 360 – 415 | °C | |
| Middle - Zone 2 Temperature | 350 – 405 | °C | |
| Rear - Zone 1 Temperature | 340 – 395 | °C | |
| Hopper Temperature | 80 – 120 | °C | |
| Mold Temperature | 140 – 180 | °C | |

## MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

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