

## LEXANT™ RESIN HF1130R

REGION EUROPE

### DESCRIPTION

LEXANT™ HF1130R resin is a 25 MFR polycarbonate, MVR of 26. UV stabilized, Mold release, UL94 V2 rated.

### TYPICAL PROPERTY VALUES

Revision 20260507

| PROPERTIES                                  | TYPICAL VALUES | UNITS     | TEST METHODS   |
|---------------------------------------------|----------------|-----------|----------------|
| <b>MECHANICAL</b>                           |                |           |                |
| Taber Abrasion, CS-17, 1 kg                 | 10             | mg/1000cy | SABIC method   |
| Tensile Stress, yield, 50 mm/min            | 63             | MPa       | ISO 527        |
| Tensile Stress, break, 50 mm/min            | 50             | MPa       | ISO 527        |
| Tensile Strain, yield, 50 mm/min            | 6              | %         | ISO 527        |
| Tensile Strain, break, 50 mm/min            | 70             | %         | ISO 527        |
| Tensile Modulus, 1 mm/min                   | 2350           | MPa       | ISO 527        |
| Flexural Stress, yield, 2 mm/min            | 90             | MPa       | ISO 178        |
| Flexural Modulus, 2 mm/min                  | 2300           | MPa       | ISO 178        |
| Ball Indentation Hardness, H358/30          | 95             | MPa       | ISO 2039-1     |
| <b>IMPACT</b>                               |                |           |                |
| Izod Impact, unnotched 80°10°3 +23°C        | NB             | kJ/m²     | ISO 180/1U     |
| Izod Impact, unnotched 80°10°3 -30°C        | NB             | kJ/m²     | ISO 180/1U     |
| Izod Impact, notched 80°10°3 +23°C          | 60             | kJ/m²     | ISO 180/1A     |
| Izod Impact, notched 80°10°3 -30°C          | 11             | kJ/m²     | ISO 180/1A     |
| Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm  | 60             | kJ/m²     | ISO 179/1eA    |
| Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm | 12             | kJ/m²     | ISO 179/1eA    |
| Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm  | NB             | kJ/m²     | ISO 179/1eU    |
| Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm | NB             | kJ/m²     | ISO 179/1eU    |
| <b>THERMAL</b>                              |                |           |                |
| Thermal Conductivity                        | 0.2            | W/m°C     | ISO 8302       |
| CTE, 23°C to 80°C, flow                     | 7.E-05         | 1/°C      | ISO 11359-2    |
| Ball Pressure Test, 125°C +/- 2°C           | PASSES         | -         | IEC 60695-10-2 |
| Vicat Softening Temp, Rate A/50             | 145            | °C        | ISO 306        |
| Vicat Softening Temp, Rate B/50             | 139            | °C        | ISO 306        |
| Vicat Softening Temp, Rate B/120            | 140            | °C        | ISO 306        |
| HDT/Be, 0.45MPa Edgew 120°10°4 sp=100mm     | 133            | °C        | ISO 75/Be      |
| HDT/Ae, 1.8 MPa Edgew 120°10°4 sp=100mm     | 121            | °C        | ISO 75/Ae      |
| Relative Temp Index, Elec                   | 130            | °C        | UL 746B        |
| Relative Temp Index, Mech w/impact          | 130            | °C        | UL 746B        |
| Relative Temp Index, Mech w/o impact        | 130            | °C        | UL 746B        |
| <b>PHYSICAL</b>                             |                |           |                |
| Mold Shrinkage on Tensile Bar, flow         | 0.5 – 0.7      | %         | SABIC method   |
| Density                                     | 1.2            | g/cm³     | ISO 1183       |
| Water Absorption, (23°C/saturated)          | 0.35           | %         | ISO 62-1       |
| Moisture Absorption (23°C / 50% RH)         | 0.15           | %         | ISO 62         |

© 2026 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



| PROPERTIES                                    | TYPICAL VALUES                | UNITS                   | TEST METHODS   |
|-----------------------------------------------|-------------------------------|-------------------------|----------------|
| Melt Volume Rate, MVR at 300°C/ 1.2 kg        | 26                            | cm <sup>3</sup> /10 min | ISO 1133       |
| <b>OPTICAL</b>                                |                               |                         |                |
| Light Transmission, 2.54 mm                   | 88 – 90                       | %                       | ASTM D1003     |
| Haze, 2.54 mm                                 | <0.8                          | %                       | ASTM D1003     |
| Refractive Index                              | 1.586                         | -                       | ISO 489        |
| <b>ELECTRICAL</b>                             |                               |                         |                |
| Volume Resistivity                            | >1.E+15                       | Ω.cm                    | IEC 60093      |
| Surface Resistivity, ROA                      | >1.E+15                       | Ω                       | IEC 60093      |
| Dielectric Strength, in oil, 3.2 mm           | 17                            | kV/mm                   | IEC 60243-1    |
| Relative Permittivity, 1 MHz                  | 2.7                           | -                       | IEC 60250      |
| Dissipation Factor, 50/60 Hz                  | 0.001                         | -                       | IEC 60250      |
| Dissipation Factor, 1 MHz                     | 0.01                          | -                       | IEC 60250      |
| Comparative Tracking Index                    | 275                           | V                       | IEC 60112      |
| Relative Permittivity, 50/60 Hz               | 2.7                           | -                       | IEC 60250      |
| <b>FLAME CHARACTERISTICS</b>                  |                               |                         |                |
| UL Yellow Card Link                           | <a href="#">E45329-236679</a> | -                       | -              |
| UL Recognized, 94V-2 Flame Class Rating       | 1                             | mm                      | UL 94          |
| Glow Wire Flammability Index 850°C, passes at | 1                             | mm                      | IEC 60695-2-12 |
| Oxygen Index (LOI)                            | 25                            | %                       | ISO 4589       |
| <b>INJECTION MOLDING</b>                      |                               |                         |                |
| Drying Temperature                            | 120                           | °C                      |                |
| Drying Time                                   | 2 – 4                         | Hrs                     |                |
| Maximum Moisture Content                      | 0.02                          | %                       |                |
| Melt Temperature                              | 280 – 300                     | °C                      |                |
| Nozzle Temperature                            | 270 – 290                     | °C                      |                |
| Front - Zone 3 Temperature                    | 280 – 300                     | °C                      |                |
| Middle - Zone 2 Temperature                   | 270 – 290                     | °C                      |                |
| Rear - Zone 1 Temperature                     | 260 – 280                     | °C                      |                |
| Hopper Temperature                            | 60 – 80                       | °C                      |                |
| Mold Temperature                              | 80 – 100                      | °C                      |                |

#### DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

