

CYCOLACT™ RESIN INP581

REGION AMERICAS

DESCRIPTION

High flow SAN pellets. FDA compliant (part use must be at room temperature or below).

TYPICAL PROPERTY VALUES

Revision 20220720

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|--|----------------|-------------------|--------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 5 mm/min | 48 | MPa | ASTM D638 |
| Tensile Stress, brk, Type I, 5 mm/min | 60 | MPa | ASTM D638 |
| Tensile Strain, yld, Type I, 5 mm/min | 1.5 | % | ASTM D638 |
| Tensile Strain, brk, Type I, 5 mm/min | 1.9 | % | ASTM D638 |
| Tensile Modulus, 5 mm/min | 4080 | MPa | ASTM D638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 66 | MPa | ASTM D790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 3440 | MPa | ASTM D790 |
| Hardness, Rockwell R | 122 | - | ASTM D785 |
| Flexural Stress, yield, 2 mm/min | 36 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 3520 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 23 | J/m | ASTM D256 |
| Izod Impact, notched, -30°C | 12 | J/m | ASTM D256 |
| Izod Impact, notched 80°10*4 +23°C | 1 | kJ/m ² | ISO 180/1A |
| Izod Impact, notched 80°10*4 -30°C | 1 | kJ/m ² | ISO 180/1A |
| Charpy Impact, notched, 23°C | 1 | kJ/m ² | ISO 179/2C |
| THERMAL | | | |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 97 | °C | ASTM D648 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 86 | °C | ASTM D648 |
| Vicat Softening Temp, Rate B/50 | 102 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/120 | 104 | °C | ISO 306 |
| HDT/Af, 1.8 MPa Flatw 80°10*4 sp=64mm | 82 | °C | ISO 75/Af |
| PHYSICAL | | | |
| Specific Gravity | 1.08 | - | ASTM D792 |
| Melt Flow Rate, 230°C/3.8 kg | 37.7 | g/10 min | ASTM D1238 |
| Density | 1.07 | g/cm ³ | ISO 1183 |
| Melt Flow Rate, 220°C/10.0 kg | 98 | g/10 min | ISO 1133 |
| OPTICAL | | | |
| Light Transmission, 2.54 mm | 92 | % | ASTM D1003 |
| Haze, 2.54 mm | 1.2 | % | ASTM D1003 |
| Yellowness Index | 1 | - | ASTM D1925 |

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 NONINFRINGEMENT 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.