

Lexan* Resin OQ4320R

Americas: COMMERCIAL

Optical grade with UV cut-off up to 400 nm; greater optical purity than standard grades. For sunglass and sunvisor markets. Internal mold release.

Property

| TYPICAL PROPERTIES ⁽¹⁾ | | | |
|--|-----------|----------|--------------|
| MECHANICAL | Value | Unit | Standard |
| Tensile Stress, yld, Type I, 50 mm/min | 62 | MPa | ASTM D 638 |
| Tensile Strain, yld, Type I, 50 mm/min | 7 | % | ASTM D 638 |
| Tensile Strain, brk, Type I, 50 mm/min | 130 | % | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 96 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2340 | MPa | ASTM D 790 |
| IMPACT | Value | Unit | Standard |
| Izod Impact, notched, 23°C | 747 | J/m | ASTM D 256 |
| Falling Dart Impact (D 3029), 23°C | 169 | J | ASTM D 3029 |
| Instrumented Impact Energy @ peak, 23°C | 63 | J | ASTM D 3763 |
| THERMAL | Value | Unit | Standard |
| Vicat Softening Temp, Rate B/50 | 154 | °C | ASTM D 1525 |
| HDT, 0.45 MPa, 6.4 mm, unannealed | 137 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 132 | °C | ASTM D 648 |
| PHYSICAL | Value | Unit | Standard |
| Specific Gravity | 1.2 | - | ASTM D 792 |
| Water Absorption, 24 hours | 0.15 | % | ASTM D 570 |
| Mold Shrinkage, flow, 3.2 mm | 0.5 - 0.7 | % | SABIC Method |
| Melt Flow Rate, 300°C/1.2 kgf | 12.5 | g/10 min | ASTM D 1238 |

Source GMD, last updated:01/04/2000

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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