



Ultraform® N 2320 U03 UNC Q600

BASF Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Ultraform N 2320 U03 UNC Q600 is a rapidly freezing UV stabilized general-purpose injection molding grade.

General

| | |
|-------------------|---|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Additive | • UV Stabilizer |
| Features | • Copolymer • General Purpose • UV Stabilized |
| Uses | • General Purpose |
| Agency Ratings | • EC 1907/2006 (REACH) |
| RoHS Compliance | • RoHS Compliant |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|------------------------|-------------|
| Density / Specific Gravity | 1.40 | | ASTM D792 |
| Density | 1.40 | g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 7.50 | cm ³ /10min | ISO 1133 |
| Molding Shrinkage - Flow (0.125 in) | 0.020 | in/in | |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 2.1 | % | |
| Flow | 2.1 | % | |
| Water Absorption (Saturation) | 0.80 | % | ASTM D570 |
| Water Absorption (Saturation, 73°F) | 0.80 | % | ISO 62 |
| Water Absorption (Equilibrium, 50% RH) | 0.20 | % | ASTM D570 |
| Water Absorption (Equilibrium, 73°F, 50% RH) | 0.20 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (73°F) | 377000 | psi | ISO 527-2 |
| Tensile Strength (Yield, 73°F) | 9140 | psi | ASTM D638 |
| Tensile Stress | | | ISO 527-2 |
| Yield, -40°F | 13500 | psi | |
| Yield, 73°F | 9140 | psi | |
| Yield, 176°F | 4790 | psi | |
| Tensile Elongation (Yield, 73°F) | 9.4 | % | ASTM D638 |
| Tensile Strain (Yield, 73°F) | 9.4 | % | ISO 527-2 |
| Nominal Tensile Strain at Break (73°F) | 30 | % | ISO 527-2 |
| Tensile Creep Modulus (1 hr) | 261000 | psi | ISO 899-1 |
| Tensile Creep Modulus (1000 hr) | 203000 | psi | ISO 899-1 |
| Flexural Modulus (73°F) | 580000 | psi | ISO 178 |

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| Impact | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-------------|
| Charpy Notched Impact Strength | | | ISO 179 |
| -22°F | 2.4 | ft·lb/in ² | |
| 73°F | 2.6 | ft·lb/in ² | |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -22°F | 86 | ft·lb/in ² | |
| 73°F | 95 | ft·lb/in ² | |
| Notched Izod Impact | | | ASTM D256 |
| -40°F | 1.1 | ft·lb/in | |
| 73°F | 1.3 | ft·lb/in | |
| Notched Izod Impact Strength (73°F) | 3.1 | ft·lb/in ² | ISO 180 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 320 | °F | ASTM D648 |
| Heat Deflection Temperature (66 psi, Unannealed) | 313 | °F | ISO 75-2/B |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi, Unannealed | 230 | °F | |
| Heat Deflection Temperature (264 psi, Unannealed) | 203 | °F | ISO 75-2/A |
| Peak Melting Temperature | 331 | °F | ASTM D3418 |
| Melting Temperature (DSC) | 331 | °F | ISO 3146 |
| CLTE - Flow | 3.3E-5 | in/in/°F | ASTM E831 |
| CLTE - Flow | 6.1E-5 | in/in/°F | |
| Electrical | Nominal Value | Unit | Test Method |
| Comparative Tracking Index | 600 | V | IEC 60112 |

Notes

¹ Typical properties: these are not to be construed as specifications.