



Ultraform® W 2320 003 BK120 Q600

BASF Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Ultraform W 2320 003 BK120 Q600 is a pigmented black, very easy flowing and rapidly solidifying injection molding POM grade for use where processing is extremely difficult but mechanical properties are lower. Contains a mold release agent.

Applications

Typical applications include thin walled parts.

General

| | | | |
|-------------------|------------------------|-------------|---------------------|
| Material Status | • Commercial: Active | | |
| Availability | • North America | | |
| Additive | • Mold Release | | |
| Features | • Copolymer | • Good Flow | • Good Mold Release |
| Uses | • Thin-walled Parts | | |
| Agency Ratings | • EC 1907/2006 (REACH) | | |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-----------------------|-------------|
| Density | 1.40 | g/cm ³ | ISO 1183 |
| Water Absorption (Saturation, 73°F) | 0.80 | % | ISO 62 |
| Water Absorption (Equilibrium, 73°F, 50% RH) | 0.20 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (73°F) | 392000 | psi | ISO 527-2 |
| Tensile Stress (Yield, 73°F) | 9140 | psi | ISO 527-2 |
| Tensile Strain (Yield, 73°F) | 7.5 | % | ISO 527-2 |
| Flexural Modulus (73°F) | 377000 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 2.6 | ft·lb/in ² | ISO 179 |
| Notched Izod Impact Strength (73°F) | 2.6 | ft·lb/in ² | ISO 180 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (264 psi, Unannealed) | 194 | °F | ISO 75-2/A |
| Melting Temperature (DSC) | 333 | °F | ISO 3146 |
| RTI Elec | | | UL 746 |
| 0.06 in | 221 | °F | |
| 0.12 in | 221 | °F | |
| RTI Imp | | | UL 746 |
| 0.06 in | 194 | °F | |
| 0.12 in | 194 | °F | |
| RTI Str | | | UL 746 |
| 0.06 in | 194 | °F | |
| 0.12 in | 221 | °F | |

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| Flammability | Nominal Value | Unit | Test Method |
|--------------|---------------|------|-------------|
| Flame Rating | | | UL 94 |
| 0.06 in | HB | | |
| 0.12 in | HB | | |

Notes

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