

BASF Ultraform® S2320 0035 LEV POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Description: Is a POM, free-flowing and rapidly solidifying standard grade with reduced emission potential for injection molding. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-S2320-0035-LEV-POM.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|----------------------|
| Bulk Density | 0.850 g/cc | 0.0307 lb/in ³ | |
| Density | 1.40 g/cc | 0.0506 lb/in ³ | ISO 1183 |
| Water Absorption | 0.80 % | 0.80 % | Saturation; ISO 62 |
| Moisture Absorption at Equilibrium | 0.20 % | 0.20 % | 23°C; 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.021 cm/cm | 0.021 in/in | ISO 2577 |
| Linear Mold Shrinkage, Transverse | 0.021 cm/cm | 0.021 in/in | ISO 2577 |
| Melt Flow | 15.4 g/10 min @Load 2.16 kg, Temperature 190 °C | 15.4 g/10 min @Load 4.76 lb, Temperature 374 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|----------------------|
| Ball Indentation Hardness | 130 MPa @Load 36.5 kg, Time 30.0 sec | 18900 psi @Load 80.5 lb, Time 0.00833 hour | ISO 2039-1 |
| Tensile Strength, Yield | 63.0 MPa | 9140 psi | 50 mm/min; ISO 527-2 |
| Elongation at Break | 32 % | 32 % | ISO 527-2 |
| Elongation at Yield | 11 % | 11 % | ISO 527-2 |
| Modulus of Elasticity | 2.45 GPa | 355 ksi | ISO 527-2 |
| Charpy Impact Unnotched | 21.0 J/cm ² @Temperature -30.0 °C | 99.9 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |
| | 25.0 J/cm ² @Temperature 23.0 °C | 119 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 0.600 J/cm ² @Temperature -30.0 °C | 2.86 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eA |

| Mechanical Properties | Metric | English | Comments |
|-----------------------------------|------------------------|---|-------------|
| | 1000 J/cm ² | 500 ft ² /lb/in ² | ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Tensile Creep Modulus, 1000 hours | 1000 MPa | 145000 psi | ISO 899-1 |

| Thermal Properties | Metric | English | Comments |
|---|-----------------------------|----------------------------|-----------|
| CTE, linear, Parallel to Flow | 110 µm/m-°C | 61.1 µin/in-°F | DIN 53752 |
| | @Temperature 23.0 - 55.0 °C | @Temperature 73.4 - 131 °F | |
| Melting Point | 167 °C | 333 °F | DIN 53765 |
| Maximum Service Temperature, Air | 100 °C | 212 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 95.0 °C | 203 °F | ISO 75-2 |
| Vicat Softening Point | 150 °C | 302 °F | ISO 306 |
| Decomposition Temperature | >= 240 °C | >= 464 °F | |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|----------------------------|
| Volume Resistivity | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+15 ohm | 1.00e+15 ohm | IEC 60093 |
| Dielectric Constant | 3.8 | 3.8 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 3.9 | 3.9 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 36.0 kV/mm | 914 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.0030 | 0.0030 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 0.0060 | 0.0060 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 600 V | 600 V | Test solution A; IEC 60112 |
| | 600 V | 600 V | Test solution B; IEC 60112 |

| Electrical Properties | Metric | English | Comments |
|------------------------|---------------|--------------|-------------------|
| Processing Properties | Metric | English | Comments |
| Processing Temperature | 200 °C | 392 °F | Hopper Throat |
| Zone 1 | 200 °C | 392 °F | Feed zone |
| Zone 2 | 200 °C | 392 °F | Compression |
| Zone 3 | 200 °C | 392 °F | Metering-zone |
| Zone 4 | 200 °C | 392 °F | Nozzle |
| Melt Temperature | 200 °C | 392 °F | Optimal |
| | 190 - 230 °C | 374 - 446 °F | Injection-molding |
| Mold Temperature | 60.0 - 120 °C | 140 - 248 °F | Injection-molding |
| | 90.0 °C | 194 °F | Optimal |
| Drying Temperature | 100 °C | 212 °F | |
| Dry Time | 3 hour | 3 hour | |

| Descriptive Properties | Value | Comments |
|------------------------------|-------------------|------------|
| Commercial Status | Europe | |
| Ignition Temperature | 320 - 340 °C | ASTM D1929 |
| Peripheral screw speed | <0.3 m/s | |
| Primary Processing Technique | Injection Molding | |

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