

BASF Ultraform® N 2640 Z4 BK140 Q600 POM

Ultraform N2640 Z4 BK140 Q600 is a high toughness, elastomer-modified injection molding POM grade.

| Physical Properties | Metric | English | Comments |
|------------------------------------|-------------|---------------------------|-----------------------|
| Density | 1.35 g/cc | 0.0488 lb/in ³ | ISO 1183 |
| Water Absorption | 0.80 % | 0.80 % | ISO 62 |
| Moisture Absorption at Equilibrium | 0.25 % | 0.25 % | 23°C/50% R.H.; ISO 62 |
| Linear Mold Shrinkage | 0.019 cm/cm | 0.019 in/in | ASTM Data; MD |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------------|--------------------------------------|-----------------------------------|
| Tensile Strength, Yield | 36.0 MPa | 5220 psi | 50mm/min; ISO 527 |
| Elongation at Break | >= 50 % | >= 50 % | 50mm/min, Nominal strain; ISO 527 |
| Elongation at Yield | 14 % | 14 % | 50mm/min; ISO 527 |
| Tensile Modulus | 1.55 GPa | 225 ksi | 1mm/min; ISO 527 |
| Flexural Modulus | 1.57 GPa | 228 ksi | ASTM Test |
| | 1.74 GPa | 252 ksi | ISO Data |
| Izod Impact, Notched | 0.950 J/cm @Thickness 3.17 mm | 1.78 ft-lb/in @Thickness 0.125 in | ASTM Test |
| Izod Impact, Notched (ISO) | 11.7 kJ/m ² | 5.57 ft-lb/in ² | ISO Test |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Melting Point | 167 °C | 333 °F | 10 K/min |
| | 167 °C | 333 °F | ASTM Test |
| Deflection Temperature at 1.8 MPa (264 psi) | 75.0 °C | 167 °F | ASTM Test |

| Descriptive Properties | |
|------------------------------|-------------------|
| Color | BK140 |
| Commercial Status | Active America |
| Impact Modified | Yes |
| Primary Processing Technique | Injection Molding |