

Ultraform® S2320 003 PRO TR AT UN
POM

BASF

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm³/10min	ISO 1133
Temperature	190	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	2.2	%	ISO 294-4, 2577
Molding shrinkage, normal	2.0	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	9	%	ISO 527
Nominal strain at break	35	%	ISO 527
Impact Strength (Charpy), +23°C	180	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	145	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	5.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	6	kJ/m²	ISO 179/1eA
Notched Impact Strength (Izod), 23°C	7	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	6.5	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	135	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	167	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	100	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	120	E-6/K	ISO 11359-1/-2

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.6	-	IEC 62631-2-1
Dissipation Factor, 1MHz	56	E-4	IEC 62631-2-1
Volume Resistivity	1E12	Ohm*m	IEC 62631-3-1
Surface Resistivity	1E15	Ohm	IEC 62631-3-2
Comparative tracking index	600	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.8	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1400	kg/m³	ISO 1183
Bulk density	850	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	190 - 230	°C	-
Mold temperature	60 - 120	°C	-

Characteristics

Processing

Injection Molding

Features

Tribologic Grade

Delivery form

Pellets, Natural Color

Applications

Medical

Additives

Lubricants