

BASF Ultraform® N2320 003

BASF Ultraform® N2320 003 is a polyoxymethylene copolymer with a flammability rating of HB.

Physical property		Standard	Value	Unit
Density		ISO 1183	1.4	g/cm ³
Water Absorption	23°C 24hr	ISO 62	0.8	%
Water Absorption	23°C 50RH	ISO 62	0.2	%
Melt Index	190°C 2.16kg	ISO 1133	7.5	cm ³ /10min
Mechanical behavior		Standard	Value	Unit
Tensile Modulus	23°C	ISO 527	2700	MPa
Tensile Strength	23°C	ISO 527	65	MPa
Elongation	23°C	ISO 527	27	%
Tensile Creep Modulus	1000hr	ISO 899	1400	MPa
Charpy Notch Impact		ISO 179	6	kJ/m ²
Charpy Notch Impact		ISO 179	5.5	kJ/m ²
Charpy Un-notch Impact	23°C	ISO 179	210	kJ/m ²
Charpy Un-notch Impact	-30°C	ISO 179	190	kJ/m ²
Thermal		Standard	Value	Unit
HDT	Unannealed 1.8MPa	ISO 75	100	°C
Melting Temperature		ISO 11357	167	°C
CLE	Flow	ISO 11359	1.10E-04	cm/cm/°C
Electrical properties		Standard	Value	Unit
Volume Resistivity		IEC 60093	1.00E+13	Ω .cm
Surface Resistivity		IEC 60093	1.00E+13	Ω
Dielectric Strength		IEC 60243	39	KV/mm
Dielectric Constant	1MHz	IEC 60250	3.8	
Dissipation Factor	1MHz	IEC 60250	0.005	
CTI		IEC 60112	600	V
Flammability		Standard	Value	Unit
Flame Rating	All Color 0.75mm	UL94	HB	
Flame Rating	All Color 1.5mm	UL94	HB	
Flame Rating	All Color 3.0mm	UL94	HB	