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BASF Ultraform® N2320 0038 AT

BASF Ultraform® N2320 0038 AT is a copolymer polyoxymethylene (POM) material designed for injection molding

Physical property	Standard	Value	Unit
Density	ISO 1183	1410	kg/m³
Shrinkage Flow	ISO 294	2.1	%
Shrinkage xFlow	ISO 294	2.1	%
Water Absorption	ISO 62	0.9	%
Humidity Absorption 23°C 50RH Saturation	ISO 62	0.2	%
Melt Index 190°C 2 .16kg	ISO 1133	7.5	cm³/10min
Hardness	**Standard**	**Value**	**Unit**
Ball Indentation Hardness H358 30s	ISO 2039	135	MPa
Mechanical behavior	**Standard**	**Value**	**Unit**
Tensile Modulus	ISO 527	2600	MPa
Tensile Strength Yield 50mm/min	ISO 527	62	MPa
Elongation Yield 50mm/min	ISO 527	9.4	%
Elongation Break 50mm/min	ISO 527	27	%
Tensile Creep Modulus 1000hr	ISO 899	1300	MPa
Flexural Modulus	ISO 178	2500	MPa
Izod Notch Impact 23°C	ISO 180	6	kJ/m²
Izod Notch Impact -30°C	ISO 180	5.5	kJ/m²
Charpy Notch Impact 23°C 1eA	ISO 179	6	kJ/m²
Charpy Notch Impact -30°C 1eA	ISO 179	5	kJ/m²
Charpy Un-notch Impact 23°C	ISO 179	240	kJ/m²
Charpy Un-notch Impact -30°C	ISO 179	210	kJ/m²
Thermal	**Standard**	**Value**	**Unit**
HDT 1.8MPa	ISO 75	95	°C
Melting Temperature DSC	ISO 11357	166	°C
CLE Flow 23~55°C	ISO 11359	1.10E-04	m/m/K
Service Temperature Maximum Short Time	INTERNAL METHOD	100	°C
Electrical properties	**Standard**	**Value**	**Unit**
Volume Resistivity 100V	IEC 62631	1.00E+11	Ω .m
Surface Resistivity 100V	IEC 62631-3-2	1.00E+13	Ω
Dielectric Constant	IEC 62631-2-1	3.8	
Dissipation Factor 1MHz	IEC 62631-2-1	0.005	
CTI Solution A	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	