

BASF Ultraform® W2320 003 PRO AT

BASF's Ultraform® W2320 003 PRO AT is a Polyoxymethylene (POM) Polymer Copolymer.

Physical property	Standard	Value	Unit
Density	ISO 1183	1410	kg/m³
Shrinkage Flow	ISO 294	2	%
Shrinkage xFlow	ISO 294	2.1	%
Water Absorption	ISO 62	0.8	%
Melt Index 190°C 2.16kg	ISO 1133	25	cm³/10min
Mechanical behavior	Standard	Value	Unit
Tensile Modulus	ISO 527	2850	MPa
Tensile Strength Yield	ISO 527	65	MPa
Elongation Yield	ISO 527	8	%
Elongation Break	ISO 527	24	%
Tensile Creep Modulus 1hr	ISO 899	2100	MPa
Tensile Creep Modulus 1000hr	ISO 899	1350	MPa
Charpy Notch Impact 23°C	ISO 179	4.5	kJ/m²
Charpy Notch Impact -30°C	ISO 179	4	kJ/m²
Charpy Un-notch Impact 23°C	ISO 179	190	kJ/m²
Charpy Un-notch Impact -30°C	ISO 179	190	kJ/m²
Thermal	Standard	Value	Unit
HDT 1.8MPa	ISO 75	100	°C
HDT 0.45MPa	ISO 75	156	°C
Vicat Softening Temperature 50°C/hr 50N	ISO 306	150	°C
Melting Temperature 10°C/min	ISO 11357	166	°C
CLE Flow	ISO 11359	0.00011	m/m/K
Electrical properties	Standard	Value	Unit
Volume Resistivity	IEC 62631	1E+11	Ω .m
Surface Resistivity	IEC 62631-3-2	1E+13	Ω
Dielectric Strength	IEC 60243	40	KV/mm
Dielectric Constant 100Hz	IEC 62631-2-1	3.8	
Dielectric Constant 1MHz	IEC 62631-2-1	3.8	
Dissipation Factor 100Hz	IEC 62631-2-1	0.001	
Dissipation Factor 1MHz	IEC 62631-2-1	0.005	
CTI	IEC 60112	600	V
Flammability	Standard	Value	Unit
Flame Rating 1.6mm	UL94	HB	
Flame Rating 0.8mm	UL94	HB	
Limiting Oxygen Index	ISO 4589	15	%