

BASF

POM

H4320 AT

Product information

Part Marking Code	POM
Material Shape	Pellets
Process	Injection molding Extrusion molding
Polymer	Copolymer
Molecular Weight	High Molecular Weight
FR	HB
Material Attribute	Extrusion grade Heat stabilized grade
Features	Color stability
Application	Thick-walled parts
Additives	Mold Releases

Mechanical behavior	Standard	Value	Unit
Elongation	ISO 527	11	%
Elongation	ISO 527	31	%
Tensile Strength	ISO 527	60	MPa
Tensile Modulus	ISO 527	2400	MPa
Tensile Creep Modulus	ISO 899	1800	MPa
Tensile Creep Modulus	ISO 899	1300	MPa
Charpy Un-notch Impact	ISO 179	250	kJ/m ²
Charpy Notch Impact	ISO 179	6.5	kJ/m ²
Charpy Notch Impact	ISO 179	5.5	kJ/m ²

Thermal	Standard	Value	Unit
HDT	ISO 75	90	°C
HDT	ISO 75	155	°C
Melting Temperature	ISO 11357	163	°C
CLE	ISO 11359	1.2E-4	cm/cm/°C
Vicat Softening Temperature	ISO 306	150	°C

Physical property	Standard	Value	Unit
Water Absorption	ISO 62	1	%
Humidity Absorption	ISO 62	0.25	%
Shrinkage	ISO 294	2.2	%
Shrinkage	ISO 294	2.1	%
Density	ISO 1183	1400	kg/m ³
Melt Index	ISO 1133	2.2	cm ³ /10min

Electrical properties	Standard	Value	Unit
CTI	IEC 60112	600	V
Dielectric Constant	IEC 62631-2-1	3.8	
Dielectric Constant	IEC 62631-2-1	3.8	
Volume Resistivity	IEC 62631	1E11	Ω.m
Dielectric Strength	IEC 60243	40	KV/mm
Dissipation Factor	IEC 62631-2-1	0.001	
Dissipation Factor	IEC 62631-2-1	0.005	
Surface Resistivity	IEC 62631-3-2	1E13	Ω
Flammability	Standard	Value	Unit
Limiting oxygen index	ISO 4589	15	%
Flame Rating	UL94	HB	
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