

# BASF

## POM

### W2320 0035

#### Product information

Manufacturer BASF CORP

Color NC

Material Shape Pellets

Polymer Copolymer

FR HB

Electrical properties	Condition	Standard	Value	Unit
-----------------------	-----------	----------	-------	------

CTI		IEC 60112	600	V
-----	--	-----------	-----	---

Dielectric	Strength	IEC 60243	39	KV/mm
------------	----------	-----------	----	-------

Dielectric	Constant 1MHz	IEC 60250	3.8	
------------	---------------	-----------	-----	--

Dissipation	Factor 1MHz	IEC 60250	0.005	
-------------	-------------	-----------	-------	--

Surface	Resistivity	IEC 60093	1E13	
---------	-------------	-----------	------	--

Volume	Resistivity	IEC 60093	1E13	Ω.cm
--------	-------------	-----------	------	------

Flammability	Condition	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	
-------	------------------------	------	----	--

Mechanical behavior	Condition	Standard	Value	Unit
---------------------	-----------	----------	-------	------

Charpy	Notch Impact 23°C	ISO 179	5	kJ/m <sup>2</sup>
--------	-------------------	---------	---	-------------------

Charpy	Notch Impact -30°C	ISO 179	5	kJ/m <sup>2</sup>
--------	--------------------	---------	---	-------------------

Charpy	Un-notch Impact 23°C	ISO 179	180	kJ/m <sup>2</sup>
--------	----------------------	---------	-----	-------------------

Charpy	Un-notch Impact -30°C	ISO 179	180	kJ/m <sup>2</sup>
--------	-----------------------	---------	-----	-------------------

Elongation	23°C	ISO 527	25	%
------------	------	---------	----	---

Tensile	Modulus 23°C	ISO 527	2600	MPa
---------	--------------	---------	------	-----

Tensile	Strength 23°C	ISO 527	65	MPa
---------	---------------	---------	----	-----

Tensile	Creep Modulus 1000hr	ISO 899	1250	MPa
---------	----------------------	---------	------	-----

Physical property	Condition	Standard	Value	Unit
-------------------	-----------	----------	-------	------

Density		ISO 1183	1.4	g/cm <sup>3</sup>
---------	--	----------	-----	-------------------

Melt	Index 190°C 2.16kg	ISO 1133	25	cm <sup>3</sup> /10min
------	--------------------	----------	----	------------------------

Water	Absorption 23°C 24hr	ISO 62	0.8	%
-------	----------------------	--------	-----	---

Water	Absorption 23°C 50RH	ISO 62	0.2	%
-------	----------------------	--------	-----	---

Thermal	Condition	Standard	Value	Unit
---------	-----------	----------	-------	------

CLE	Flow	ISO 11359	1.1E-4	cm/cm/°C
-----	------	-----------	--------	----------

HDT	Unannealed 1.8MPa	ISO 75	100	°C
-----	-------------------	--------	-----	----

Melting	Temperature	ISO 11357	167	°C
---------	-------------	-----------	-----	----

UL	Condition	Standard	Value	Unit
----	-----------	----------	-------	------

Arc	Resistance	ASTM D495	5	PLC
-----	------------	-----------	---	-----

Comparative	Tracking Index	IEC 60112	0	PLC
Dielectric	Strength	ASTM D149	39	KV/mm
Dimensional	Stability	UL746	0.0	%
HAI	ALL 1.5mm	UL 746A	0	PLC
HAI	ALL 3.0mm	UL 746A	0	PLC
HVTR		UL 746A	0	PLC
HWI	ALL 1.5mm	UL 746A	4	PLC
HWI	ALL 3.0mm	UL 746A	3	PLC
RTI	Elec ALL 0.75mm	UL 746B	105	°C
RTI	Elec ALL 1.5mm	UL 746B	105	°C
RTI	Elec ALL 3.0mm	UL 746B	105	°C
RTI	Imp ALL 1.5mm	UL 746B	90	°C
RTI	Imp ALL 3.0mm	UL 746B	90	°C
RTI	Str ALL 1.5mm	UL 746B	90	°C
RTI	Str ALL 3.0mm	UL 746B	105	°C
UL	FlameRating ALL 0.75mm	UL94	HB	
UL	FlameRating ALL 1.5mm	UL94	HB	
UL	FlameRating ALL 3.0mm	UL94	HB	
Volume	Resistivity	ASTM D257	1E+13	Ω.cm