

**Tenopom® A3 HF NTLA010 PR307**

POM

Grupo Petropol Polímeros

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	25	g/10min	ISO 1133
Temperature	190	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3200	MPa	ISO 527
Tensile Strength	71	MPa	ISO 527
Yield strain	12	%	ISO 527
Nominal strain at break	25	%	ISO 527
Strain at break	27	%	ISO 527
Flexural modulus, 23°C	3000	MPa	ISO 178
Tensile creep modulus, 1h	2800	MPa	ISO 899-1
Charpy impact strength, +23°C	200	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	7	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	M 92	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	95	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	165	°C	ISO 75-1/-2
Vicat softening temperature, B	160	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Electric strength	32	kV/mm	IEC 60243-1
<b>Other Standards<sup>S1</sup></b>			
Relative permittivity, 100Hz	3.8	-	IEC 60250
Relative permittivity, 1MHz	3.6	-	IEC 60250
Volume resistivity	1E13	Ohm*m	IEC 60093
Surface resistivity	1E15	Ohm	IEC 60093

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Water absorption	1.4	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1420	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3	h	-
Melt temperature	210 - 220	°C	-
Mold temperature	50 - 90	°C	-

**Characteristics****Processing**

Injection Molding

**Features**

Homopolymer

**Delivery form**

Natural Color

**Regional Availability**

North America, Europe, South and Central America