

Novodur® P2H-AT
Acrylonitrile Butadiene Styrene
INEOS ABS (Spain) S.L.



Prospector

Product Description

standard impact strength, easy flowing, high gloss, contains antistatic additive

General

Material Status	• Commercial: Active
Availability	• Europe
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	<ul style="list-style-type: none"> • Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-2) • Specific Volume vs Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt volume-flow rate (220°C/10.0 kg)	37.0	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			ISO 294-4
Across Flow: 2.00 mm	0.40 to 0.60	%	
Flow: 2.00 mm	0.40 to 0.60	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	2500	MPa	ISO 527-2 ²
Tensile Stress (Yield)	44.0	MPa	ISO 527-2 ²
Tensile Strain			
Yield	2.1	%	ISO 527-2 ²
Break, 23°C	> 15	%	ISO 527-2/50
Tensile Creep Modulus			ISO 899-1 ²
1 hr	2200	MPa	
1000 hr	1500	MPa	
Flexural Modulus ³	2400	MPa	ISO 178
Flexural Strength ³ (23°C)	70.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ²
-30°C	7.00	kJ/m ²	
23°C	16.0	kJ/m ²	
Charpy impact strength			ISO 179/1eU ²
-30°C	80.0	kJ/m ²	
23°C	100	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	7.00	kJ/m ²	
23°C	16.0	kJ/m ²	

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	110	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	97.0	°C	
1.8 MPa	93.0	°C	
Vicat Softening Temperature			ISO 306 ²
50°C/h, B (50N)	98.0	°C	
CLTE - Flow	0.000090	cm/cm/°C	ISO 11359-2 ²

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+15	ohms	IEC 60093 ²
Volume resistivity	1.0E+13	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	3.00		
1 MHz	2.90		
Dissipation Factor			IEC 60250 ²
100 Hz	0.0055		
1 MHz	0.0090		
Comparative tracking index	600		IEC 60112 ²
Electric strength	34	kV/mm	IEC 60243-1 ²
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	60	mm/min	ISO 3795
Flame Rating - UL (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	700	°C	IEC 60695-2-12

Additional Information

ISO Shortname: ISO 2580-1 -ABS 0, MGZ, 095-30-16-25

Notes

- ¹ Typical properties: these are not to be construed as specifications.
² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
³ 2.0 mm/min