

# Tenogel® ABS A3 HL NTLA010 AB318

Acrylonitrile Butadiene Styrene

Petropol Industry and Trade of Polymers LTDA

## Message:

ABS resin for injection into the natural color, general purpose, excellent mechanical and thermal properties. High impact resistance, combined with high brightness and excellent low temperature performance, and good chemical resistance and easy processing.

General Information			
Features	General Purpose		
	Good Chemical Resistance		
	Good Processability		
	High Gloss		
	High Impact Resistance		
	Low Temperature Resistant		
Uses	General Purpose		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	41.0	MPa	
3.20 mm	40.0	MPa	
Flexural Modulus (3.00 mm)	1960	MPa	ASTM D790
Flexural Strength (3.00 mm)	63.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	160	J/m	
0°C, 3.20 mm	230	J/m	
23°C, 3.20 mm	310	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	91.0	°C	ASTM D648

Vicat Softening Temperature	101	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	195 to 230	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	< 82.7	MPa	
Back Pressure	< 0.689	MPa	

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