

Tenogel® ABS A3 HL PRTA011 AB316

Acrylonitrile Butadiene Styrene

Petropol Industry and Trade of Polymers LTDA

Message:

ABS resin for injection in black color, general purpose, excellent mechanical and thermal properties. Good resistance to impact, 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 Impact Resistance		
	Good Processability		
	Low Temperature Resistant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03 to 1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15 to 25	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (3.20 mm)	40.0	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus ¹	2200	MPa	ASTM D790
Flexural Strength ²	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525 ³
Flammability	Nominal Value	Test Method	
Flame Rating	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
NOTE		
1.	3.0 mm/min	
2.	3.0 mm/min	
3.	Rate A (50°C/h)	

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