

Tenogel® ABS A3 LF NTLA010 AB348

Acrylonitrile Butadiene Styrene
Petropol Industry and Trade of Polymers LTDA

Message:
ABS resin for extrusion, excellent mechanical and thermal resistance.

General Information			
Processing Method	Extrusion		
Resin ID (ISO 1043)	>ABS<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.0	MPa	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength	64.0	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Dart Drop Test (-40°C)	24.0	J	GE
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	
23°C	16	kJ/m ²	
Notched Izod Impact			ASTM D256
-40°C	87	J/m	
23°C	280	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	93.0	°C	
1.8 MPa, Unannealed, 6.40 mm	86.0	°C	
Vicat Softening Temperature	103	°C	ASTM D1525
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Electric Strength	36	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.90		IEC 60250

Dissipation Factor (1 MHz)	9.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index (2.00 mm)	700	°C	IEC 60695-2-12

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