

ELIX™ ABS M210TF

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

ELIX ABS M210TF

General applications for toy and food contact, meets European standard EN 71, part 3 and ASTM F963 ,standard impact strength, easy flowing, high gloss.

ISO Shortname: ISO 2580 ABS 0 MG 95-30-16-20

General Information			
Features	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	High Gloss		
Uses	Non-specific Food Applications		
	Toys		
Agency Ratings	ASTM F 963		
	EN 71-3 Part 3		
Forms	Pellets		
Part Marking Code (ISO 2580)	ABS 0 MG 95-30-16-20		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	30.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow	0.60	%	
Flow	0.60	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2050	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	42.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	> 15	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2050	MPa	ISO 178
Flexural Stress ³ (23°C)	62.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	11	kJ/m ²	
23°C	17	kJ/m ²	

Notched Izod Impact Strength			ISO 180/1A
-30°C	11	kJ/m ²	
23°C	17	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	94.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	95.0	°C	ISO 306/B50
--	98.0	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	1.0E-4	cm/cm/°C	
Transverse : 23 to 55°C	9.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	2.90		
23°C, 1 MHz	2.90		
Dissipation Factor			IEC 60250
23°C, 100 Hz	7.3E-3		
23°C, 1 MHz	9.0E-3		
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴	63	mm/min	ISO 3795
Glow Wire Flammability Index	700	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	240	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	ISO 294
NOTE			
1.	150x105x3		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	US - FMVSS		

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