

Silamid® E

Polyamide 6
Roonamid a.s.

Message:

Polyamide 6, optimal processing properties, distinctive gloss of the mouldings, wide range of color shades according to customer's requests. Suitable for shape-pretentious injection mouldings, where requirements are put on their appearance.

General Information				
Features		Medium Gloss		
Appearance		Colors Available		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	16	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.4 to 1.8	1.4 to 1.8	%	
Flow	1.7 to 1.9	1.7 to 1.9	%	
Water Absorption (23°C, 24 hr)	1.3	1.3	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	80.0	40.0	MPa	
Break	40.0	35.0	MPa	
Flexural Modulus	2350	900	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+11	ohms · cm	IEC 60093
Electric Strength	--	16	kV/mm	IEC 60243-1

Relative Permittivity (1 MHz)	--	4.50		IEC 60250
Dissipation Factor (1 MHz)	--	0.14		IEC 60250
Arc Resistance	110	--	sec	ASTM D495
Comparative Tracking Index	--	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	V-2	--		UL 94
Glow Wire Ignition Temperature ¹	905	905	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	230 to 250		°C	
Mold Temperature	60.0 to 80.0		°C	
NOTE				

1. Range: 850 to 960°C

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