

Silamid® EL

Polyamide 6
Roonamid a.s.

Message:

Polyamide 6, modiflicated, increased impact toughness maintained even at low temperature and dry conditions than SILAMID® E. optimal processing properties, natural, other color shades according to customer's request. Suitable as a construction material where an increased impact strenght is required.

General Information			
Additive	Impact Modifier		
Features	Good Impact Resistance		
	Impact Modified		
Uses	Construction Applications		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			
Across Flow	1.9	%	
Flow	1.8	%	
Water Absorption (23°C, 24 hr)	1.3	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	65.0	MPa	
Break	40.0	MPa	
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	6.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Injection	Nominal Value	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	

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Recommended distributors for this material

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