

Novamid® ES110C

Polyamide 6

DSM Engineering Plastics

Message:

Novamid® ES110C is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific for injection molding. Primary attribute of Novamid® ES110C: Good Processability.

General Information			
UL YellowCard	E47960-100738712	E172082-100744565	E53664-101704614
Features	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	1.1	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.8	%	ISO 62
Viscosity Number	118	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Yield)	84.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	18	%	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress	114	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.1	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	173	°C	ISO 75-2/B
1.8 MPa, Unannealed	76.0	°C	ISO 75-2/A
Melting Temperature ¹	220	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	230 to 235	°C	
Middle Temperature	235 to 250	°C	
Front Temperature	240 to 260	°C	
Nozzle Temperature	240 to 270	°C	
Processing (Melt) Temp	240 to 275	°C	

Mold Temperature	50.0 to 80.0	°C
Injection Rate	Moderate-Fast	
Back Pressure	3.00 to 10.0	MPa
Screw Compression Ratio	2.5:1.0	

NOTE

1.
- 10°C/min

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

