

Novamid® 1010CH ES

Polyamide 6

DSM Engineering Plastics

Message:

Novamid® 1010CH ES is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific for injection molding. Primary attribute of Novamid® 1010CH ES: Low Viscosity.

General Information				
Features		Low Viscosity		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	1.1	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.8	--	%	ISO 62
Viscosity Number	138	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	--	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	--	MPa	ISO 527-2
Nominal Tensile Strain at Break	19	--	%	ISO 527-2
Flexural Modulus	2900	--	MPa	ISO 178
Flexural Stress	113	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.4	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	171	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	73.0	--	°C	ISO 75-2/A
Melting Temperature ¹	220	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	2.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	--	ohms · cm	IEC 60093
Electric Strength	26	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	--		IEC 60250

Dissipation Factor (1 MHz)	0.022	--		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Injection	Dry	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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