

DSM Technical Data Sheet

Novamid 1010N2



Properties	Test Method	Terms	Units	dry(50%RH)
Physical properties				
Density	ISO 1183	-	g/cm3	1.16
Water absorption		23degC, 50%RH	%	2.3
Rheological properties				
Melt Mass-flow Rate	ISO 1133		g/10min	41
			cm3/10mir	40
Melt Volume-flow Rate		Temperature	degC	230
		Load	kg	2.16
Moulding shrinkage (3mmt)	-	MD	%	1.0
		TD		1.1
Mechanical properties				
Tensile modulus	ISO 527-1 , 527-2		MPa	3600
Tensile stress at break			MPa	80
Tensile strain at break			%	3
Flexural strength	ISO 178	-	MPa	120
Flexural modulus				3600
Charpy impact strength	ISO 179-1,-2	23 degC	kJ/m2	90
Charpy notched impact strength				3
Thermal properties				
Melting temperature	ISO 11357-3		degC	224
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa	degC	70
		0.45MPa		192
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	6.E-05
		TD		6.E-05
Flammability	UL94	0.8mmt	-	V-0
Electrical properties				
Relative permittivity	IEC 60250	1MHz	-	4
Dissipation factor	IEC 60250	1MHz	-	0.019
Volume resistivity	IEC 60093	-	ohm-m	2.E+13
Surface resistivity	IEC 60093	-	ohm	2.E+14
Electric strength	IEC 60243-1	1mmt	MV/m	26
Comparative tracking index	IEC 60112	-	-	575

The listed properties are portrayed as general information only and are not product specifications.
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