

Durethan® DP2-2224/30H2.0
PA66-(MD+GF)30

Envalior

PA 66, 30 % mineral/glass fibres, injection moulding, heat-ageing stabilized, hydrolysis stabilized, GIT/WIT

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	9000 / 4200	MPa	ISO 527
Stress at Break	120 / 60	MPa	ISO 527
Strain at Break	2.8 / 8	%	ISO 527
Impact Strength (Charpy), +23°C	50 / 55	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	45 / 45	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10 / 10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10 / 10	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	235 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.6 / *	mm	-
Oxygen index	28 / *	%	ISO 4589-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4.7 / 12.8	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.9 / 4.4	-	IEC 62631-2-1
Dissipation Factor, 100Hz	260 / 2800	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	220 / 850	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric Strength	40 / 29	kV/mm	IEC 60243-1
Comparative tracking index	350 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	290	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Characteristics
Processing

Injection Molding

Delivery form

Pellets

Injection Molding
PREPROCESSING

Max. Water content: 0.1 %

Drying temperature: 80 °C

Drying time:

Dry air dryer 2-20 h (will depend on the initial moisture content)

PROCESSING

Melt temperature: 280 - 300 °C

Mold temperature: 80 - 120 °C