Technical datasheet

HP 2061 (Phenolic resin cellulose paper 201/paper-based plastics)

Example of application
› mechanical engineering; insulation

Advantages	Disadvantages
› very high surface hardness › good electrical insulation capacity	› poor machinablity › bad anti-friction properties › very brittle

Basic information	Specification
Format	**sheets**: 0.3 mm up to 100 mm available in 2.05 m x 1.05 to 40 mm length partly also available up to about 2.8 m x 1.3 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.35	g/cm^3	ISO 1183
Moisture ingress	n.sp.	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	120	MPa	DIN EN ISO 527
Elongation at break	n.sp.	%	DIN EN ISO 527
E-Module	7.000	MPa	DIN EN ISO 527
Notch toughness	15	kJ/m^2	ISO 179
Rochwellhardness	n.sp.	MPa	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.2	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	0.3	$K^{-1} \cdot 10^{-4}$	DIN 53752
	0.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	110	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	n.sp.	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	n.sp.	Ω	DIN IEC 60093
Puncture resistance	n.sp.	kV/mm	DIN EN 60243

Legend
n.sp. = not specified

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.
*Higher specification on request.

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technical plastics

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