

Main properties

Values measured at 23 °C

The values of properties are for natural grade.

Properties	Standards	Unit	Values		
			EH 0 – 23 °C	EH 50 – 23 °C	
Physical					
Water absorption, 24h in water at 23°C	ISO 62	%	1.05	-	
Density	ISO 1183-A	g/cm3	1.08	-	
Moulding shrinkage longitudinal	RHODIA-EP	%	2	-	
Moulding shrinkage transverse	RHODIA-EP	%	2	-	
Mechanical					
Tensile Modulus	ISO 527	MPa	1800	600	
Yield stress	ISO 527	MPa	47	65	
Elongation at yield	ISO 527	%	7	370	
Stress at 50% elongation	ISO 527	MPa	44	29	
Tensile stress at break	ISO 527	MPa	44	55	
Nominal tensile strain at break	ISO 527	%	80	400	
Flexural modulus	ISO 178	MPa	1500	535	
Flexural strength	ISO 178	MPa	63	22.5	
Charpy notched impact strength	ISO 179/1EA-1993	kJ/m2	55	100	
Charpy notched impact strength ISO179/1A	ISO 179-1982	kJ/m2	60	NB	
Charpy impact strength	ISO 179/1EU-1993	kJ/m2	NB	NB	
Charpy impact strength ISO 179/1D	ISO 179-1982	kJ/m2	NB	NB	
Izod notched impact strength	ISO 180	kJ/m2	60	80	
Thermal					
Melt temperature	ISO 3146 - C	°C	263	-	
Temper. of dimensional stability 1,8 MPa	ISO 75-2	°C	65	-	
Coef. linear expansion longit. 23°C-85°C	ASTM E 831	E-5 / °C	7	-	
Glow wire test thick. 0,8 mm : no flame	IEC 695-2-1	°C	99	-	
Electrical					
Relative permittivity 1MHz	IEC 250	-	3.2	3.6	
Dissipation factor 1 MHz	IEC 250	-	0.02	0.06	
Volume resistivity	IEC 93	E14.Ohm.cm	10	0.1	
Surface resistivity	IEC 93	E14.Ohm	1	0.1	
Dielectric strength	IEC 243-1	kV/mm	30	38	
Comparative tracking index sol. A	IEC 112	Volt	575	600	
Specific					
Limit oxygen index	ISO 4589	%	24.5	-	
Taber abrasion resistance	NF G62 001	mm3	90	-	

Identification code

>PA66<

The information contained in this document is supplied in good faith. It is based on the extent of our knowledge of the products as listed, and on the tests and experiments carried out in our laboratories. It is to be used only as an indication and shall not be construed in any way as a formal commitment or warranty on our part. Compliance of our products with your conditions of application or use can only be determined pursuant to your own prior appropriate test. The listed values of properties are for natural grade, if not otherwise specified.



Engineering Plastics

Avenue Ramboz BP 64 F-69192 Saint-Fons Cedex. Telephone: +33 (0)4 72 89 27 00 Fax: +33(0)4 72 89 27 01

RHODIA ENGINEERING PLASTICS. Société Anonyme au capital de 271 256 400 F - 393 335 104 RCS Lyon