



# RADICI CHIMICA

RADICI CHIMICA S.p.A.

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## Technical data sheet Radipol A45-L1

General purposes polyamide 6.6 resins internally and externally lubricated

Properties	Conditions	Test method	Units	Value	
				DAM	Conditioned
<i>Physical</i>					
Density	23°C	ISO 1183	g/cm <sup>3</sup>	1,14	
Water absorption	Saturation 23°C, 50% RH	ISO 62	%	8,5 2,8	
Melting Point	10°C/min.	ISO 3146 C	°C	262	
Mould Shrinkage	Parallel	ISO 2577	%	1,3	
<i>Mechanical</i>					
Tensile modulus	1 mm/min.	ISO 527_1/2	MPa	3100	1200
Tensile strength at Yield	50 mm/min.	ISO 527_1/2	MPa	83	53
Tensile strain at yield	50 mm/min.	ISO 527_1/2	%	4,5	25
Tensile elongation at break	50 mm/min.	ISO 527_1/2	%	35	>50
Flexural strength	23 °C	ISO 178	MPa	113	42
Flexural modulus	23 °C	ISO 178	MPa	2700	1100
Charpy Impact strength	Notched Unnotched	ISO 179	KJ/m <sup>2</sup>	6 nb	15 nb
Izod notched impact strength	23°C	ISO 180	KJ/m <sup>2</sup>	5,4	11,7
<i>Thermal</i>					
Temperature of deflection under load	1,8 MPa	ISO 75_1/2	°C	70	
Vicat softening Temperature	load 50N	ISO 306	°C	240	
Rockwell Hardness	Scale M Scale R	ISO 2039_2	MPa	80 120	55 108
<i>Electrical</i>					
Comparative tracking index		IEC 112		600	
Dielectric strength		IEC 243_1	kV/mm	31	26
Surface resistivity		IEC 93	Ω	10 <sup>15</sup> -10 <sup>13</sup>	
Volume resistivity		IEC 93	Ω×cm	10 <sup>15</sup> -10 <sup>13</sup>	
Relative permittivity	50 Hz 1 MHz	IEC 250		4 3,4	5,8 3,9
Dissipation factor	50 Hz 1 MHz	IEC 250		0,018 0,025	0,075 0,075
<i>Ignition</i>					
Flammability	0,8 mm 1,6 mm 3,0 mm	UL 94		V2 V2 V2	
Glow wire		IEC 695_2/1	mm/°C	2/850	

**DAM** : dry as moulded

**Conditioned** : 23°C 50% RH, eq.

The above reported technical data are simply indicative for user and they are given without any guaranty. They are not to be considered as specification