

# Technical Data Sheet

nr. Tec. Data Sheet: RCH-06	<b>Product</b> RADIPOL® A45L
Issued: 05/2012	<b>Product code</b> P66F053
	<b>Colour</b> NATURAL
	<b>References</b> N° CAS. 32131-17-2

<b>Description</b>	Internal and external lubricated Polyamide 6,6
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<b>Typical application</b>	Base polymer for fast cycle injection moulding, cable ties
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<b>Material handling</b>	The material is supplied as granulate in bulk or packed in 500 or 1000 kg tight sealed containers. Store away from the direct rays of the sun in rooms provided with a proper ventilation. The packages must be kept closed until utilization. For the storing in silo use stainless steel or aluminum silos. Packaging materials: multilayer cardboard octabins, polypropylene bags or polythene-aluminum bags with barrier effect.
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<b>Recycling</b>	The product can be reused after grinding and extrusion.
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<b>Specification and regulation</b>	For safety instruction please refer to Material Safety Data Sheet. Underwriters Laboratories Inc. certified material. File number: E146390 <a href="http://www.ul.com">www.ul.com</a>
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<b>Adequacy declarations</b>	Product complies the Regulation: - European Directive 2011/65/EC (and successive updated and integrations) referred to the "restriction of the use of certain hazardous substances in electrical and electronic equipment". <b>Important:</b> the above mentioned information relates only to the materials as delivered in their original packaging. It's not applicable to the product modified with or without additional of further additives.
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	Properties	Method	Units	Value	Test conditions
	<b>Properties (1)</b>	<b>Physical Properties</b>			
<b>Density</b>		ISO1183	Kg/dm <sup>3</sup>	1.14	
<b>Relative Viscosity</b>		Int. met.	-	2.60	Solvent: sulphuric acid 96%
<b>Mechanical Properties</b>					
<b>Tensile modulus</b>		ISO 527-2/1A	MPa	3100	DAM; vel. test 1mm/min
<b>Yield stress</b>		ISO 527-2/1A	MPa	85	DAM; vel. test 5mm/min
<b>Yield strain</b>		ISO 527-2/1A	%	4.4	DAM; vel. test 5mm/min
<b>Nominal strain at break</b>		ISO 527-2/1A	%	35	DAM; vel. test 50mm/min
<b>Flexural modulus</b>		ISO 178/1A	MPa	2800	DAM; vel. test 2mm/min
<b>Flexural strength</b>		ISO 178/1A	MPa	105	DAM; vel. test 2mm/min
<b>Charpy impact strength</b>		ISO 179 eU	KJ/m <sup>2</sup>	NB	DAM; T=23°C
<b>Charpy notched impact strength</b>		ISO 179 eA	KJ/m <sup>2</sup>	6.5	DAM; T=23°C
<b>Thermal Properties</b>					
<b>Melting temperature</b>		ISO 11357-1-3	°C	262	Scanning rate 10°C/min
<b>Temperature of deflection under load</b>		ISO 75-2/Af	°C	70	Max surface stress 1.8 MPa
<b>Vicat softening temperature</b>		ISO 306/B50	°C	240	Load 50N; heating rate 50°C/h
<b>Flammability (UL94)</b>	IEC 60695-11-10	mm/class	1.5/V-2		

**Notes: (1) test specimens were obtained according ISO 1874-2.**  
DAM = dry as moulded state

<b>Declarations</b>	The above mentioned technical data are simply indicative for users and they are given without any guarantee. They are not to be considered as specifications. Any modification/additivation of the material after the supplying can involve variation of the values or the technical characteristics. The values are calculated on injection moulded samples. Radici Chimica S.p.A. makes no warranties and assumes no liability in connections with any use of this information.
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