

# Technical Data Sheet

nr. Tec. Data Sheet: RCH-09	<b>Product</b> RADIPOL® A40D
Issued: 14/04/2015	<b>Product code</b> P66F001
	<b>Colour</b> NATURAL
	<b>References</b> N° CAS. 32131-17-2

<b>Description</b>	Polyamide 6,6 low viscosity, dry
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<b>Typical application</b>	Base polymer for dry blending, compounding, injection moulding
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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.
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<b>Adequacy declarations</b>	The product complies the Regulation: <ul style="list-style-type: none"> <li>- European Directive 2011/65/EC (and to successive updated and integrations)</li> <li>- European Regulation 10/2011 (and to successive updated and integrations) and the Food and Drug Administration specification for Nylon 66 according to CFR Title 21 paragraph 177.1500 (Nylon resins), concerning the use of polyamides in the manufacture of plastics that come into contact with foodstuffs.</li> <li>- Ministerial Decree 174/2004 (and to successive updated and integrations) relating to the use of materials that come into contact with drinking water.</li> </ul> <p>Important: 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 addition of further additives.</p>
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	Properties	Method	Units	Value	Test conditions
Properties (1)	<b>Physical Properties</b>				
	Density	ISO1183	Kg/dm <sup>3</sup>	1,14	
	Relative Viscosity	Int. met.	-	2.45	Solvent: sulphuric acid 96%
	<b>Mechanical Properties</b>				
	Tensile modulus	ISO 527-2/1A	MPa	3000	DAM; vel. test 1mm/min
	Yield stress	ISO 527-2/1A	MPa	80	DAM; vel. test 5mm/min
	Yield strain	ISO 527-2/1A	%	5.1	DAM; vel. test 5mm/min
	Nominal strain at break	ISO 527-2/1A	%	25	DAM; vel. test 50mm/min
	Flexural modulus	ISO 178/1A	MPa	2800	DAM; vel. test 2mm/min
	Flexural strength	ISO 178/1A	MPa	121	DAM; vel. test 2mm/min
	Charpy impact strength	ISO 179 eU	KJ/m <sup>2</sup>	NB	DAM; T=23°C
	Charpy notched impact strength	ISO 179 eA	KJ/m <sup>2</sup>	4.8	DAM; T=23°C
	<b>Thermal Properties</b>				
Melting temperature	ISO 11357-1-3	°C	262	Scanning rate 10°C/min	

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/addition 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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