

Technical Data Sheet

nr. Tec. Data Sheet: RCH-15	Product RADIPOL® A105
Issued: 05/2015	Product code P66F017
	Colour NATURAL
	References N° CAS. 32131-17-2

Description	Polyamide 6,6 high viscosity
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Typical application	Base polymer for extrusion of tubes, profiles, bars, rods and sheets
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Material handling	The material is supplied as granulate, 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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Recycling	The product can be reused after grinding and extrusion.
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Specification and regulation	For safety instruction please refer to Material Safety Data Sheet.
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Adequacy declarations	The product complies the Regulation: <ul style="list-style-type: none"> - European Directive 2011/65/EC (and to successive updated and integrations) - 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. - Ministerial Decree 174/2004 (and to successive updated and integrations) relating to the use of materials that come into contact with drinking water. <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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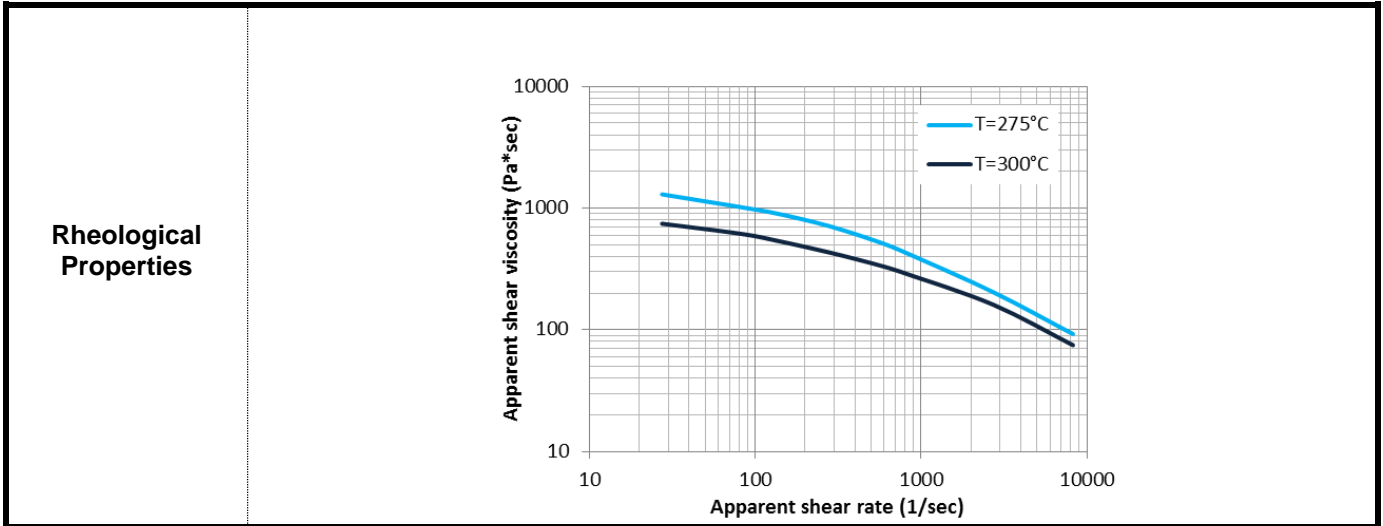
	Properties	Method	Units	Value	Test conditions
	Properties (1)	Physical Properties			
Density		ISO1183	Kg/dm ³	1,14	
Relative Viscosity		Int. met.	-	4.20	Solvent: sulphuric acid 96%
Water absorption		ISO 62	%	8.4	2mm, immersion a 23°C
Moisture absorption		ISO 62	%	2.1	2mm, 23°S – 50%RH
Mechanical Properties					
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	%	4.5	DAM; vel. test 5mm/min
Nominal strain at break		ISO 527-2/1A	%	75	DAM; vel. test 50mm/min
Flexural modulus		ISO 178/1A	MPa	2900	DAM; vel. test 2mm/min
Flexural strength		ISO 178/1A	MPa	115	DAM; vel. test 2mm/min
Charpy notched impact strength		ISO 179/1 eA	KJ/m ²	7	DAM; T=23°C
Charpy notched impact strength		ISO 179/1 eA	KJ/m ²	5	DAM; T=-30°C
Thermal Properties					
Melting temperature		ISO 11357-1-3	°C	262	Scanning rate 10°C/min
Heat deflection temperature		ISO 75/2 A f	°C	80	1.8 MPa
Heat deflection temperature		ISO 75/2 B f	°C	195	0.45 MPa
Vicat Softening Temperature		ISO 306/B50 50N	°C	240	50°C/min

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

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<p>Declarations</p>	<p>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.</p>
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