

# Technical Data Sheet

## Preliminary data

nr. Tec. Data Sheet: RCH-16	<b>Product</b> RADIPOL® DD45D
Issued: 03/04/2015	<b>Product code</b> P66F030
	<b>Colour</b> NATURAL
	<b>References</b> N° CAS. 26098-55-5

<b>Description</b>	Polyamide 6.12 dry, standard viscosity
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<b>Typical application</b>	Base polymer for compounding or injection moulding
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<b>Material handling</b>	The material is supplied as granulate, dry, packed in 500 or 900 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, 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>	<p>The product complies:</p> <ul style="list-style-type: none"> <li>- European Regulation 10/2011 (and to successive updated and integrations)</li> <li>- FDA Regulation Title 21 part 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> <li>- 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".</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 (1)	Properties	Method	Units	Value	Test conditions
	<b>Physical Properties</b>				
	<b>Density</b>	ISO1183	Kg/dm <sup>3</sup>	1,06	
	<b>Relative Viscosity</b>	Int. met.	-	2,50	Solvent: sulphuric acid 96%
	<b>Water absorption</b>	ISO 62	%	2.6	23°C, saturation
				1.0	23°C, 50% r. h.
<b>Mechanical Properties</b>					
	<b>Tensile modulus</b>	ISO 527-2/1A	MPa	2300	DAM; vel. test 1mm/min
	<b>Yield stress</b>	ISO 527-2/1A	MPa	63	DAM; vel. test 5mm/min
	<b>Yield strain</b>	ISO 527-2/1A	%	4.8	DAM; vel. test 5mm/min
	<b>Nominal strain at break</b>	ISO 527-2/1A	%	>100	DAM; vel. test 50mm/min
	<b>Flexural modulus</b>	ISO 178/1A	MPa	2400	DAM; vel. test 2mm/min
	<b>Flexural strength</b>	ISO 178/1A	MPa	87	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>	4	DAM; T=23°C
<b>Thermal Properties</b>					
	<b>Melting temperature</b>	ISO 11357-1-3	°C	215	Scanning rate 10°C/min

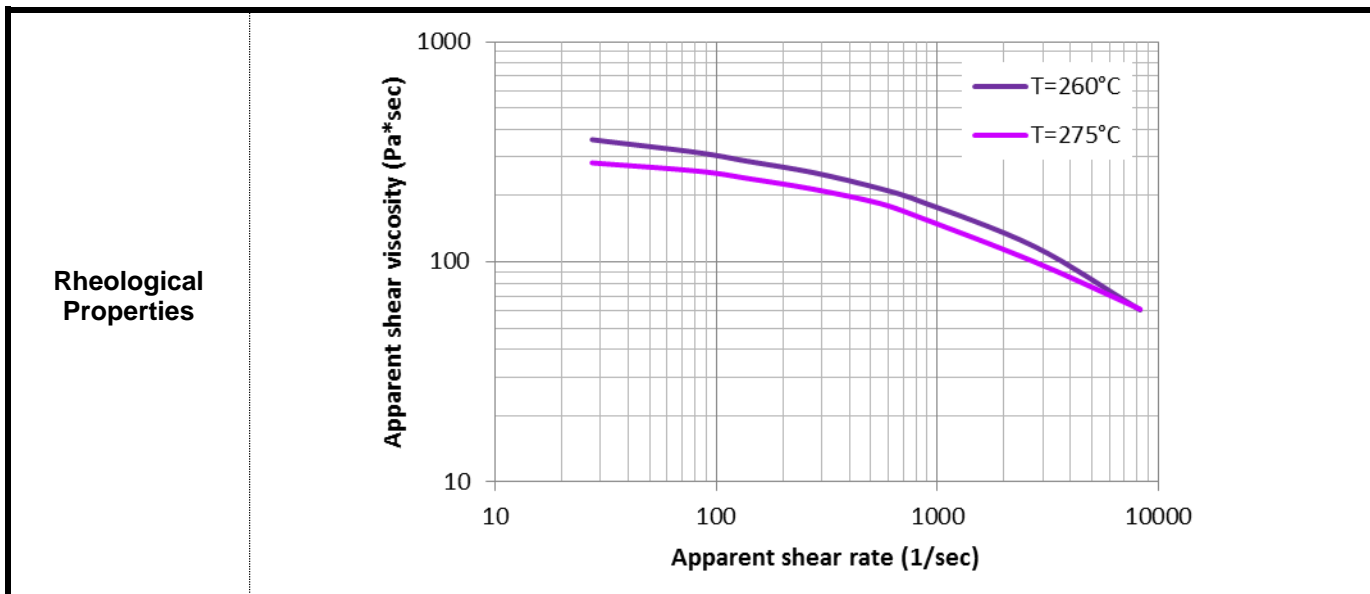
**Notes: (1) test specimens were obtained according ISO 1874-2.**  
DAM = dry as moulded state

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<b>Declarations</b>	<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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