

Technical Data Sheet

nr. Tec. Data Sheet: RCH-01	Product RADIPOL® DC45D
Issued: 10/04/2015	Product code P66F077
	Colour NATURAL
	References N° CAS. 9011-52-3

Description	Polyamide 610 dry, medium viscosity
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Typical application	Base polymer for compounding or injection moulding
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Material handling	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, 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	<p>The product complies the Regulation:</p> <ul style="list-style-type: none"> - European Regulation 10/2011 (and to successive updated and integrations) - 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. - Ministerial Decree 174/2004 (and to successive updated and integrations) relating to the use of materials that come into contact with drinking water. - 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". <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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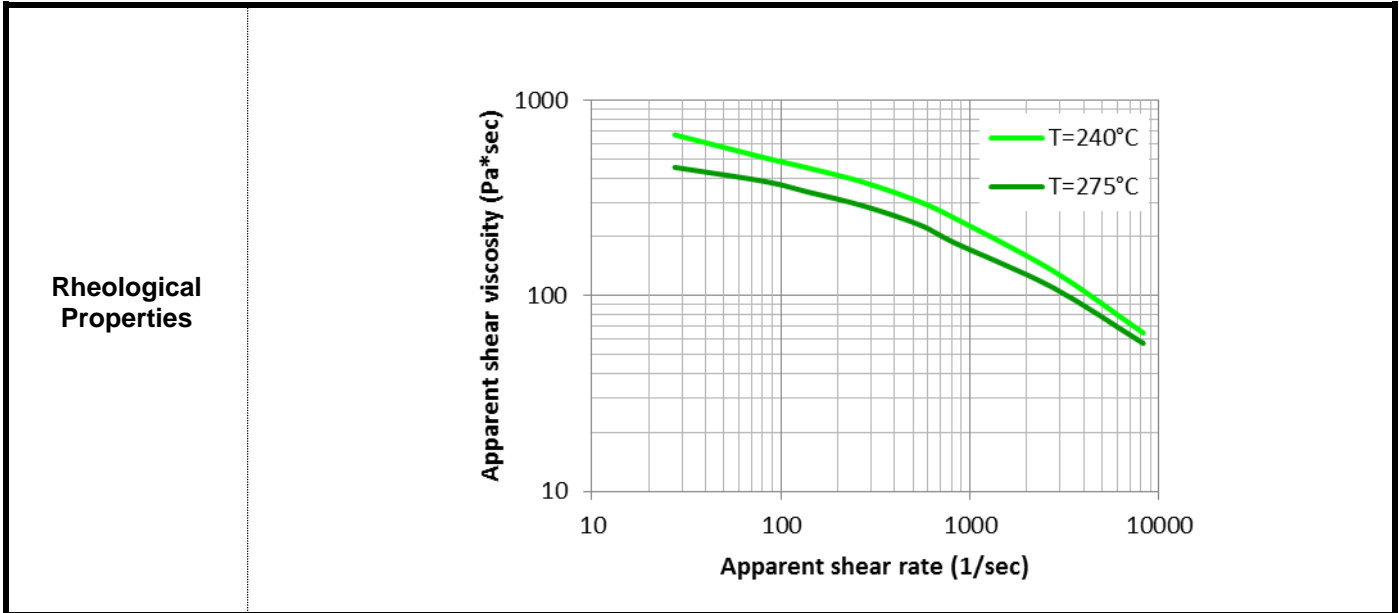
	Properties	Method	Units	Value	Test conditions
	Properties (1)	Physical Properties			
Density		ISO1183	Kg/dm ³	1,07	
Relative Viscosity		Int. met.	-	2,65	Solvent: sulphuric acid 96%
Amino End Group		Int. met.	meq/kg	48	Solvent: phenol
Mechanical Properties					
Tensile modulus		ISO 527-2/1A	MPa	2200	DAM; vel. test 1mm/min
Yield stress		ISO 527-2/1A	MPa	63	DAM; vel. test 5mm/min
Yield strain		ISO 527-2/1A	%	4.8	DAM; vel. test 5mm/min
Nominal strain at break		ISO 527-2/1A	%	78	DAM; vel. test 50mm/min
Flexural modulus		ISO 178/1A	MPa	2060	DAM; vel. test 2mm/min
Flexural strength		ISO 178/1A	MPa	83	DAM; vel. test 2mm/min
Charpy impact strength		ISO 179 eU	KJ/m ²	NB	DAM; T=23°C
Charpy notched impact strength		ISO 179 eA	KJ/m ²	6.5	DAM; T=23°C
Thermal Properties					
Melting temperature	ISO 11357-1-3	°C	222	Scanning rate 10°C/min	

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

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Declarations	<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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