

Technical Data Sheet

Preliminary data

nr. Tec. Data Sheet: RCH-24	Product RADIPOL® 45C00H
Issued: 20/01/2012	Product code P66F070
	Colour NATURAL

Description	Copolyamide 6,6/6 (95/5) with high amino-end groups content, slow crystallization rate
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Typical application	Base polymer for industrial yarn and reinforced compounds with high content of glass fibres
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Material handling	The material is supplied as granulate, packed in 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	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". 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 additional of further additives.
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Properties (1)	Properties	Method	Units	Value	Test conditions
	Physical Properties				
	Density	ISO1183	Kg/dm ³	1,14	
	Relative Viscosity	Int. met.	-	2,65	Solvent: sulphuric acid 96%
	Amino End Group	Int. met.	meq/kg	80	
Mechanical Properties					
	Tensile modulus	ISO 527-2/1A	MPa	2900	DAM; vel. test 1mm/min
	Yield stress	ISO 527-2/1A	MPa	78	DAM; vel. test 5mm/min
	Yield strain	ISO 527-2/1A	%	4.4	DAM; vel. test 5mm/min
	Nominal strain at break	ISO 527-2/1A	%	60	DAM; vel. test 50mm/min
	Flexural modulus	ISO 178/1A	MPa	2400	DAM; vel. test 2mm/min
	Flexural strength	ISO 178/1A	MPa	100	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	5.5	DAM; T=23°C
Thermal Properties					
	Melting temperature	ISO 11357-1-3	°C	255	Scanning rate 10°C/min

Notes: (1) test specimens were obtained according ISO 1874-2.

DAM = dry as moulded state

Declarations	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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