

Technical Data Sheet

nr. Tec. Data Sheet: RCH-19	Product RADIPOL® C45
Issued: 04/2013	Product code P66F020
	Colour NATURAL
	References N° CAS. 24993-04-02

Description	Copolyamide 6,6/6 (90/10) standard viscosity
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Typical application	Base polymer for compounding, injection moulding
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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: - 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 addition 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%
	Mechanical Properties				
	Tensile modulus	ISO 527-2/1A	MPa	2700	DAM; vel. test 1mm/min
	Yield stress	ISO 527-2/1A	MPa	76	DAM; vel. test 5mm/min
	Yield strain	ISO 527-2/1A	%	4.35	DAM; vel. test 5mm/min
	Nominal strain at break	ISO 527-2/1A	%	90	DAM; vel. test 50mm/min
	Flexural modulus	ISO 178/1A	MPa	2250	DAM; vel. test 2mm/min
	Flexural strength	ISO 178/1A	MPa	97	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	5.2	DAM; T=23°C
	Thermal Properties				
	Melting temperature	ISO 11357-1-3	°C	244-248	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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