

Technical Data Sheet

nr. Tec. Data Sheet: RCH-27	Product RADIPOL® A45H01
Issued: 05/2012	Product code P66F009
	Colour NATURAL
	References N° CAS. 32131-17-2

Description	Polyamide 6,6 standard viscosity, high amino end groups content
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Typical application	Base polymer for compounding
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Material handling	The material is supplied as granulate in bulk or 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, polyethylene 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	Method	Units	Value	Test conditions
	Properties (1)	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	3200	DAM; vel. test 1mm/min
Yield stress		ISO 527-2/1A	MPa	80	DAM; vel. test 5mm/min
Yield strain		ISO 527-2/1A	%	4.4	DAM; vel. test 5mm/min
Nominal strain at break		ISO 527-2/1A	%	40	DAM; vel. test 50mm/min
Flexural modulus		ISO 178/1A	MPa	2650	DAM; vel. test 2mm/min
Flexural strength		ISO 178/1A	MPa	110	DAM; vel. test 2mm/min
Charpy impact strength		ISO 179 eU	KJ/m ²	NB	DAM; T=23°C
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Thermal Properties					
Melting temperature		ISO 11357-1-3	°C	262	Scanning rate 10°C/min
Temperature of deflection under load		ISO 75-2/Af	°C	65	Max surface stress 1.8 MPa
Vicat softening temperature		ISO 306/B50	°C	240	Load 50N; heating rate 50°C/h

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/addition 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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