

TECHNICAL DATA SHEET

Issued: May 2017	Product	RADIPOL® 45C00H
	Product code	P66F070
	Colour	NATURAL
	References	N° CAS. 32131-17-2

Description	Polyamide 6,6/6 Standard viscosity, High amino end groups content
--------------------	---

Typical application	Base polymer for industrial yarn and compounding
----------------------------	--

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 with PE liner, polypropylene big bags with PE liner.
--------------------------	---

Recycling	The product can be reused after grinding and extrusion.
------------------	---

Specification and regulation	For safety instruction please refer to Material Safety Data Sheet.
-------------------------------------	--

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.
------------------------------	---

	Properties	Method	Unit	Value	Test conditions
Properties (1) (Typical Values)	Physical Properties				
	Density	ISO1183	Kg/dm ³	1,14	
	Relative Viscosity	Internal Method	-	2,67	Solvent: sulphuric acid 95.7% Polyamide concentration:0.01 g/ml
	Chip Size	-	mm	2,0x2.5x3,0	
	Granulometry	Internal Method	g/100 chips	1,9	
	Yellow Index	Internal Method	-	- 6 max	
	Amino End Group	MA0014	meq/kg	78	
	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	254	Scanning rate 10°C/min	

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