TECHNICAL DATA SHEET

Issued: February 2018	

Product	**RADIPOL® A45DD**
Product code	P66F034
Colour	NATURAL
References	N° CAS. 32131-17-2

Description	Polyamide 6,6 Standard viscosity, Super dry

Typical application	Base polymer for dry blending, injection moulding, compounding

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 with PE/Al/PET liner with barrier effect.

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	The product complies the Regulation: - European Directive 2011/65/EC (and to successive updated and integrations) - Ministerial Decree 174/2004 (and to successive updated and integrations) relating to the use of materials that come into contact with drinking water. 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.

	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	
	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
	Charpy notched impact strength	ISO 179 eA	KJ/m^2	5,0	DAM; T=23°C
	Thermal Properties				
	Melting temperature	ISO 11357-1-3	°C	260	Scanning rate 10°C/min
	Temperature of deflection under load	ISO 75-2/Af	°C	70	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

Rheological Properties