

TECHNICAL DATA SHEET

Issued: February 2018	Product	RADIPOL® DC45
	Product code	P66F076
	Colour	NATURAL
	References	N° CAS. 9011-52-3

Description	Polyamide 6,10, Standard viscosity
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Typical application	Base polymer for compounding
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Material handling	The material is supplied as granulate, packed in 500 or 900 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.
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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: <ul style="list-style-type: none"> - 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.
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	Properties	Method	Unit	Value	Test conditions
Properties (1) (Typical Values)	Physical Properties				
	Density	ISO1183	Kg/dm ³	1,07	
	Relative Viscosity	Internal Method	-	2,63	Solvent: sulphuric acid 95.7% Polyamide concentration:0.01 g/ml
	Chip Size	-	mm	2,0x2,5x3,0	
	Granulometry	Internal Method	g/100 chips	1,7	
	Yellow Index	Internal Method	-	+ 8 max	
	Mechanical Properties				
	Tensile modulus	ISO 527-2/1A	MPa	2200	DAM; vel. test 1mm/min
	Yield stress	ISO 527-2/1A	MPa	63	DAM; vel. test 5mm/min
	Yield strain	ISO 527-2/1A	%	4,8	DAM; vel. test 5mm/min
	Nominal strain at break	ISO 527-2/1A	%	78	DAM; vel. test 50mm/min
	Flexural modulus	ISO 178/1A	MPa	2060	DAM; vel. test 2mm/min
	Flexural strength	ISO 178/1A	MPa	83	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	6,5	DAM; T=23°C
	Thermal Properties				
	Melting temperature	ISO 11357-1-3	°C	220	Scanning rate 10°C/min

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

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