

# TECHNICAL DATA SHEET

Issued: February 2018	<b>Product</b>	<b>RADIPOL® DD75</b>
	<b>Product code</b>	P66F032
	<b>Colour</b>	NATURAL
	<b>References</b>	N° CAS. 26098-55-5

<b>Description</b>	Polyamide 6,12 medium viscosity
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<b>Typical application</b>	Base polymer for monofilaments
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<b>Material handling</b>	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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<b>Recycling</b>	The product can be reused after grinding and extrusion.
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<b>Specification and regulation</b>	For safety instruction please refer to Material Safety Data Sheet.
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<b>Adequacy declarations</b>	The product complies the Regulation: <ul style="list-style-type: none"> <li>- European Directive 2011/65/EC (and to successive updated and integrations) referred to the "restriction of the use of certain hazardous substances in electrical and electronic equipment".</li> <li>- Ministerial Decree 174/2004 (and to successive updated and integrations) relating to the use of materials that come into contact with drinking water.</li> </ul> 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
<b>Properties (1)</b> (Typical Values)	<b>Physical Properties</b>				
	<b>Density</b>	ISO1183	Kg/dm <sup>3</sup>	1,07	
	<b>Relative Viscosity</b>	Internal Method	-	3,20	Solvent: sulphuric acid 95.7% Polyamide concentration:0.01 g/ml
	<b>Chip Size</b>	-	mm	2,0x2,5x3,0	
	<b>Granulometry</b>	Internal Method	g/100 chips	1,7	
	<b>Yellow Index</b>	Internal Method	-	+ 5 max	
	<b>Mechanical Properties</b>				
	<b>Tensile modulus</b>	ISO 527-2/1A	MPa	2300	DAM; vel. test 1mm/min
	<b>Yield stress</b>	ISO 527-2/1A	MPa	61	DAM; vel. test 5mm/min
	<b>Yield strain</b>	ISO 527-2/1A	%	4,3	DAM; vel. test 5mm/min
	<b>Nominal strain at break</b>	ISO 527-2/1A	%	>100	DAM; vel. test 50mm/min
	<b>Flexural modulus</b>	ISO 178/1A	MPa	2300	DAM; vel. test 2mm/min
	<b>Flexural strength</b>	ISO 178/1A	MPa	85	DAM; vel. test 2mm/min
	<b>Charpy impact strength</b>	ISO 179 eU	KJ/m <sup>2</sup>	NB	DAM; T=-30°C
	<b>Charpy notched impact strength</b>	ISO 179 eA	KJ/m <sup>2</sup>	5	DAM; T=23°C
	<b>Thermal Properties</b>				
	<b>Melting temperature</b>	ISO 11357-1-3	°C	215	Scanning rate 10°C/min

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

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