

# TECHNICAL DATA SHEET

Issued: February 2018	<b>Product</b>	<b>RADIPOL® DD45D</b>
	<b>Product code</b>	P66F030
	<b>Colour</b>	NATURAL
	<b>References</b>	N° CAS. 26098-55-5
<b>Description</b>	Polyamide 6,12 standard viscosity, dry	
<b>Typical application</b>	Base polymer for compounding and injection moulding	
<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.	
<b>Recycling</b>	The product can be reused after grinding and extrusion.	
<b>Specification and regulation</b>	For safety instruction please refer to Material Safety Data Sheet.	
<b>Adequacy declarations</b>	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
<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	-	2,50	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	63	DAM; vel. test 5mm/min
	<b>Yield strain</b>	ISO 527-2/1A	%	4,8	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	2400	DAM; vel. test 2mm/min
	<b>Flexural strength</b>	ISO 178/1A	MPa	87	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>	4	DAM; T=23°C
	<b>Thermal Properties</b>				
<b>Melting temperature</b>	ISO 11357-1-3	°C	215	Scanning rate 10°C/min	
<b>Notes: (1) test specimens were obtained according ISO 1874-2.</b> DAM = dry as moulded state					

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