

TECHNICAL DATA SHEET


Issued: February 2018	Product	RADIPOL® A45
	Product code	P66F003
	Colour	NATURAL
	References	N° CAS. 32131-17-2

Description	Polyamide 6,6 Standard viscosity
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Typical application	Base polymer for compounding
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Material handling	<p>The material is supplied as granulate in bulk or 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.</p> <p>Packaging materials: multilayer cardboard octabins with PE liner or PE/Al/PET liner with barrier effect, polypropylene big bags with PE liner.</p>
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Recycling	The product can be reused after grinding and extrusion.
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Specification and regulation	<p>For safety instruction please refer to Material Safety Data Sheet.</p> <p> Underwriters Laboratories Inc. certified material. File number: E146390 www.ul.com</p>
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Adequacy declarations	<p>The product complies the Regulation:</p> <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. <p>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.</p>
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	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	-	- 10 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
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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
Fire Behaviour					
Flammability (UL94)	IEC 60695-11-10	mm/class	1,5/V-2		

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

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