

**POLYAMIDE 66**



# POLYAMIDE 66

			PA66 STANDARD GRADES					PA66 SPECIALTIES					PA66/6 COPOLYMERS		HIGH VISCOSITY PA66					
			A35	A40	A40D	A45	A45D	A45H01	45C00S	45C00H	A45K02	A75K	C40	C45	A75	A95	A105	A125	A150	A170
PROPERTIES	ANALYTICAL METHOD	UNITS																		
Density	ISO 1183	kg/dm <sup>3</sup>	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,145
Bulk density	internal	kg/dm <sup>3</sup>	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Granulometry	internal	g/100chips	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Melting temperature	ISO 11357-1-3	°C	262	262	262	262	262	262	260	253	262	262	248	248	262	262	262	262	262	262
Crystallisation temperature	ISO 11357-1-3	°C	220	220	220	220	220	220	210	200	220	220			220	220	220	220	220	220
Relative viscosity (sulfuric acid 96%)	internal	-	2,33	2,45	2,45	2,67	2,67	2,62	2,52	2,65	2,65	3,20	2,45	2,67	3,20	4,00	4,30	4,70	5,30	6,00
Amino end-groups	internal	meq/kg						82	52	80										
Humidity content at packing	internal	%	0,5 max	0,5 max	0,15 max	0,5 max	0,15 max	0,5 max	0,5 max	0,5 max	0,5 max	0,1 max	0,5 max	0,5 max	0,1 max	0,1 max	0,1 max	0,1 max	0,1 max	0,1 max
Yellow index on pellets	internal	-	-8	-8	-6	-10	-8	-9	-8	-8	-	-	-8	-8	-6	-6	-6	-6	-6	-6
Black spots	internal	n <sup>o</sup> /kg	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<b>INDICATIONS</b>																				
Index of viscosity (formic acid 90%)	ISO307	ml/g	118	127	127	144	144	144	133	144	144	184	127	144	184	245	268	298	344	397
Index of viscosity (formic acid 90%)	ISO307	ml/g	105	114	114	131	131	131	120	131	131	171	114	131	171	233	256	286	332	385

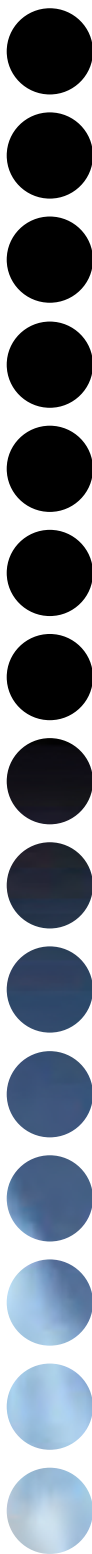
			PA66 TEXTILE				FAST MOULDING PA66		
			40AM03	40AM30K	40AM130K	45A00	A45L	A45LK	A45DNL
PROPERTIES	ANALYTICAL METHOD	UNITS							
Density	ISO 1183	kg/dm <sup>3</sup>	1,14	1,14	1,14	1,14	1,14	1,14	1,14
Bulk density	internal	kg/dm <sup>3</sup>	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Granulometry	internal	g/100chips	2	2	2	2	2	2	2
Melting temperature	ISO 11357-1-3	°C	265	265	265	262	262	262	262
Crystallisation temperature	ISO 11357-1-3	°C	230	230	230	220	220	220	233
Relative viscosity (sulfuric acid 96%)	internal	-	2,47	2,47	2,47	2,70	2,60	2,60	2,60
Amino end-groups	internal	meq/kg	44	44	44	46			
Humidity content at packing	internal	%	0,4 max	0,4 max	0,4 max	0,4 max	0,2 max	0,2 max	0,2 max
Yellow index on pellets	internal	-	-5	-3	0	-8	-8	-8	-8
Black spots	internal	n <sup>o</sup> /kg	10	10	10	10	10	10	10
<b>INDICATIONS</b>									
Index of viscosity (sulfuric acid 96%)	ISO307	ml/g	129	129	129	146	139	139	139
Index of viscosity (formic acid 90%)	ISO307	ml/g	116	116	116	133	126	126	126

Analysis methods are available on request.

The information contained in this literature is based on our experience and is given in good faith. The given values are the results of tests done on representative samples and specimens under test conditions. Data values should be considered as a guideline: they do not constitute a specification and should therefore not be used as design or project data.

These products are supplied as granulate in bulk, or in 1000 kg moisture-proof octabins.

<i>TYPE</i>	<i>DESCRIPTION</i>	<i>APPLICATION</i>
<b>STANDARD GRADES</b>		
<i>A35</i>	very low viscosity	compounding, injection moulding
<i>A40</i>	low viscosity	compounding, injection moulding
<i>A40D</i>	low viscosity, dry	compounding, injection moulding
<i>A45</i>	standard viscosity	compounding, injection moulding
<i>A45D</i>	standard viscosity, dry	compounding, injection moulding
<b>SPECIALTIES</b>		
<i>A45H01</i>	standard viscosity, high amino end groups	compounding, industrial yarn
<i>45C00S</i>	PA 6.6 with a sulphur based additive	compounding, industrial yarn with different dye affinity
<i>45C00H</i>	PA 6.6 high amino end groups content, slow crystallization	compounding, industrial yarn with different dye affinity
<i>A45K02</i>	standard viscosity, Cu/Halogen heat stabilised	injection moulding, industrial yarn
<i>A75K</i>	medium viscosity, Cu/Halogen heat stabilised	monofilaments, industrial yarn
<b>COPOLYMERS</b>		
<i>C40</i>	low viscosity PA6.6/6 copolymer	compounding, smooth surface
<i>C45</i>	standard viscosity PA6.6/6 copolymer	compounding, smooth surface
<b>HIGH VISCOSITY</b>		
<i>A75</i>	medium viscosity	compounding, extrusion, monofilaments production
<i>A95</i>	high viscosity	compounding, extrusion, monofilaments production
<i>A105</i>	high viscosity)	extrusion of tubes, profiles, bars, rods and sheets
<i>A125</i>	high viscosity	extrusion of tubes, profiles, bars, rods and sheets
<i>A150</i>	very high viscosity	extrusion of tubes, profiles, bars, rods and sheets
<i>A170</i>	very high viscosity	extrusion of tubes, profiles, bars, rods and sheets
<b>TEXTILE</b>		
<i>40AM03</i>	low viscosity, semi-bright (0,03% TiO <sub>2</sub> )	textile POY, FOY, LOY
<i>40AM30K</i>	low viscosity, semi-dull (0,30% TiO <sub>2</sub> )	textile POY, FOY, LOY
<i>40AM130K</i>	low viscosity, semi-dull (1,30% TiO <sub>2</sub> )	textile POY, FOY, LOY
<i>45A00</i>	standard viscosity	industrial yarns
<b>FAST MOULDING</b>		
<i>A45L</i>	standard viscosity, internal and external lubricated	fast cycle injection moulding, cable ties etc.
<i>A45LK</i>	standard viscosity, internal and external lubricated, heat stabilised	heat resistant engineering parts
<i>A45DNL</i>	standard viscosity, internal and external lubricated, nucleated	fast cycle injection moulding, connectors etc.



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#### Sales Offices

##### **RADICI CHIMICA SPA BERGAMO (Mendrisio Branch)**

Via Lavizzari, 4  
CH - 6850 Mendrisio  
Phone +41 91 6400750  
Fax +41 91 6300912  
E-mail: [info.radicichem@radicigroup.com](mailto:info.radicichem@radicigroup.com)

##### **RADICI CHEM (SHANGHAI) CO., LTD.**

Room I, 30th Floor, Cross Region Plaza, No. 899  
Lingling Road, Xuhui District  
CN - 200030 - Shanghai  
Phone +86 21 64389210  
Fax +86 21 64389960  
E-mail: [info.radicichemshanghai@radicigroup.com](mailto:info.radicichemshanghai@radicigroup.com)

#### Production Offices

##### **RADICI CHIMICA SPA**

Via Giacomo Fauser, 50  
IT - 28100 Novara  
Phone +39 0321 693111  
Fax +39 0321 693201  
E-mail: [info.radicichimicanovara@radicigroup.com](mailto:info.radicichimicanovara@radicigroup.com)

##### **RADICI CHIMICA DEUTSCHLAND GMBH**

Dr. Bergius Strasse, 6  
DE - 6729 Elsteraue OT Tröglitz  
Phone +49 3441 8298122  
Fax +49 3441 8298124  
E-mail: [info.radicichimicatroeglitz@radicigroup.com](mailto:info.radicichimicatroeglitz@radicigroup.com)