



# TECHNICAL DATA SHEET

**Product Name** : N-10IMS01  
**Product Description** : PA.6 with high impact resistance

Physical Properties	Test Method	Unit	Value
Melt Flow Index (MFI)	ASTM D 1238	gr/10 min.	
Ash Content	ISO 3451	%	
Colour Value	-	DE	
Gloss / 60 °	ASTM D 523	-	
Thermal Properties	Test Method	Unit	De er
Vicat Softening Temp. 50 N-50 °C/h	ASTM D 1525	°C	<b>176.6</b>
Heat Deflection Temp. (HDT) 120 °C / h-1.8 Mpa	ASTM D 648	°C	
Melting Point	-	°C	<b>215</b>
Mechanical Properties	Test Method	Unit	De er
Tensile Elongation At Yield / 5mm/min.	ASTM D 638	%	<b>13</b>
Tensile Strength At Yield	ASTM D 638	MPa	<b>47.5</b>
Tensile Strength At Break	ASTM D 638 M	MPa	<b>44.1</b>
Tensile Elongation At Break	ASTM D 638 M	%	<b>188.1</b>
Hardness (SHORE D)	ASTM D 2240	3 Second	<b>77.5</b>
Hardness (SHORE A)	ASTM D 2240	3 Second	
Izod Impact Strength, Notched	ASTM D 256	KJ /m <sup>2</sup>	<b>46.1</b>
Charpy Impact Strength, Notched	ASTM D 256	KJ /m <sup>2</sup>	
Abrasion Resistance	ISO 4649	mm <sup>3</sup>	
Flammability	Test Method	Unit	De er
Flammability Classification	3,2 mm thickness UL 94	Class	<b>HB</b>
Glow Wire Flammability Index	... mm thickness IEC 60695-2-12	°C	
Glow Wire Ignition Test	... mm thickness IEC 60695-2-13	°C	
Other Properties	Test Method	Unit	De er
Specific Gravity	ASTM D 792	gr / cm <sup>3</sup>	<b>1.11</b>
Moisture Content	ISO 15512	%	<b>0.08</b>
Molding Shrinkage (+ 23 °C)	ISO 2577	%	<b>1.70</b>

All mentioned information in this technical data sheet present current knowledge and experience of AKAY PLASTIK. The data may not be valid when this product is used in combination with other materials such as pigments or additives which may cause significant variations in data values. Please note that the data are given for dry as molded values as related to the mentioned material only. Naturally, these data do not guarantee certain values since they may vary on customer's processing conditions, so they are provided for reference purposes only and should not be used alone to create specification limits and design basis. It is strongly recommended for customers to test the product under their own processing conditions and test facilities to determine the suitability for the required application and use.

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