



ADVANCED SYSTEMS POLYMERS

INNOVATION PLASTIC



# TERIMID A 38

Polyamide 66 Yarn	Conditions	Test Method	Units	A38 FL NAT	A38 FL EL2 NAT	A38 FL NC NAT	A38FL TI NAT	A38 V15 FL NAT	A38 V30 FL NAT	A38FL NERO	A38FL EL2 NERO	A38 V30FL NERO	A38 SV30 FL E NERO
<b>Physical Properties</b>													
Density	23°C	ASTM D792	g/cm <sup>3</sup>	1.14	1.1	1.14	1.14	1.23	1.35	1.14	1.1	1.35	1.35
Linear Shrinkage		Internal	%	1.7	2	1.7	1.7	0.7	0.5	1.7	2	0.5	1.2
Water absorption	24h/23°C	ISO 62	%	1.5	1.3	1.5	1.5	1.2	0.7	1.5	1.3	0.7	0.8
<b>Mechanical Properties</b>													
Notched impact strength	23°C	ASTM D 256	J/m	60	90	55	50	50	80	50	80	75	50
Charpy notched impact strength	23°C	ISO 179/2A	KJ/m <sup>2</sup>	5	8	4.5	4	6	8	4	7.5	8	7.5
Charpy unnotched impact strength	23°C	ISO 179/2	KJ/m <sup>2</sup>	NB	>100	NB	NB	30	50	NB	>100	35	-
Tensile strength at yield	23°C	ASTM D 638	Mpa	75	50	70	65	120	140	65	50	130	70
Tensile elongation at break	23°C	ASTM D638	%	>40	>40	>30	>30	4	3	>30	>40	2	-
Flexural modulus	23°C	ASTM D 790	Mpa	2600	2000	2500	2400	5000	7500	2400	2000	6500	3900

<b>Polyamide 66 Yarn</b>	<b>Conditions</b>	<b>Test Method</b>	<b>Units</b>	<b>A38FL NAT</b>	<b>A38 FL EL2 NAT</b>	<b>A38 FL NC NAT</b>	<b>A38FL TI NAT</b>	<b>A38 VI5 FL NAT</b>	<b>A38 V30 FL NAT</b>	<b>A38FL NERO</b>	<b>A38FL EL2 NERO</b>	<b>A38 V30FL NERO</b>	<b>A38 SV30 FL E NERO</b>
<b>Thermal Properties</b>													
Melting point	-	Internal	°C	258	258	258	258	258	258	258	258	258	258
Vicat softening point	49 N 50°C/ hour	ASTM D 1525	°C	230	210	230	230	245	250	220	210	245	235
Deflection temperature under load HDT	1,82 Mpa 120°C/hour	ASTM D 648	°C	80	75	80	80	240	250	80	75	240	80
Continuos service temperature	-	Internal	°C	80	70	80	75	100	105	75	70	100	90
<b>Eletrical properties</b>													
Dieletric strenght	2mm	ASTM D149	KV/mm	18	20	18	18	21	21	18	20	21	22
Volume resistivity	-	ASTM D257	Ohm*cm <sub>2</sub>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>	10 <sup>n</sup>
CTI (comparative tracking index)	-	-	V	>500	>500	>500	>500	500	500	>500	>500	500	>500
<b>Flame resistance</b>													
At fire behaviour	thickness 3,2mm	UL 94	Class	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
Glow wire test	thickness 2,0mm	I.E.C. 695-2-1	°C	750	-	750	750	650	650	-	-	-	-

# Main Features

A38FL NAT	A38 FL EL2 NAT	A38 FL NC NAT	A38FL TI NAT	A38 V15 FL NAT	A38 V30 FL NAT	A38FL NERO	A38FL EL2 NERO	A38 V30FL NERO	A38 SV30 FL E NERO
<ul style="list-style-type: none"> <li>• PA 66 yarn</li> <li>• without TiO2</li> <li>• high coloring</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 yarn</li> <li>• without TiO2</li> <li>• impact modified</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 yarn</li> <li>• fast cycle</li> <li>• TiO2 &lt;0,3%</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 yarn</li> <li>• whitish</li> <li>• with TiO2</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 yarn</li> <li>• whitout TiO2</li> <li>• 15% glass-fiber filled</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 yarn</li> <li>• without TiO2</li> <li>• 30% glass fiber-filled</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 black yarn with good characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 black yarn</li> <li>• impact modified</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 black yarn</li> <li>• 30% glass-fiber filled</li> </ul>	<ul style="list-style-type: none"> <li>• PA 66 black yarn</li> <li>• 30% glass beads filled</li> <li>• very good surface</li> </ul>

**All ASP products can be formulated and implemented according to specific requirements of the customer, including staining.**  
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