

# TERIMID B38

Polyamide 6	Conditions	Test Method	Units	B38 NAT	B38 EL2 NAT	B38 V15 NAT	B38 V30 NAT	B38 HT UV NAT
<b>Physical Properties</b>								
Density	23°C	ASTM D 792	g/cm <sup>3</sup>	1.14	1.09	1.23	1.35	1.31
Linear shrinkage		internal	%	1.4	1.4	0.6	0.5	0.6
Water absorption	24h /23°C	ISO 62	%	2.5	2.5	2	1	1.3
<b>Mechanical Properties</b>								
Notched impact strength	23°C	ASTM D 256	J/m	45	110	40	110	85
Charpy notched impact strength	23°C	ISO 179/2A	KJ/m <sup>2</sup>	5	9	8	11	9
Charpy unnotched impact strength	23°C	ISO 179/2	KJ/m <sup>2</sup>	NB	NB	35	55	50
Tensile strength at yield	23°C	ASTM D 638	Mpa	75	65	120	170	110
Tensile elongation at break	23°C	ASTM D 638	%	>100	-	4	3	3.4
Flexural modulus	23°C	ASTM D 790	Mpa	2500	2400	5000	7000	6800

<b>Polyamide 6</b>	<b>Conditions</b>	<b>Test Method</b>	<b>Units</b>	<b>B38 NAT</b>	<b>B38 EL2 NAT</b>	<b>B38 VI5 NAT</b>	<b>B38 V30 NAT</b>	<b>B38 HT UV NAT</b>
<b>Thermal Properties</b>								
Vicat softening point	-	internal	°C	220	220	220	220	220
Vicat softening point	49 N 50°C/hour	ASTM D 1525	°C	195	180	205	215	215
Deflection temperature under load HDT	1,82 Mpa 120°C/hour	ASTM D 648	°C	70	60	190	210	210
Continuos service temperature	-	internal	°C	70	70	95	105	105
<b>Electrical properties</b>								
Dielectric strenght	2mm	ASTM D149	KV/mm	18	18	21	21	21
Volume resistivity	-	ASTM D 257	Ohm*cm <sup>2</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	600	600	500	500	500
<b>Flame Resistance</b>								
At-Fire behaviour	thickness 3,2mm	UL 94	Class	HB	HB	HB	HB	HB
Glow wire test	thickness 2,0mm	I.E.C. 695-2-1	°C	750	-	750	650	650

## **Main Features**

<b>B38 NAT</b>	<b>B 38 EL2 NAT</b>	<b>B38 VI5 NAT</b>	<b>B38 V30 NAT</b>	<b>B38 HT UV NAT</b>
<ul style="list-style-type: none"><li>• PA 6 good melting.</li><li>• fast cycle.</li></ul>	<ul style="list-style-type: none"><li>• PA 6 impact modified.</li></ul>	<ul style="list-style-type: none"><li>• PA 6 glass filled 15%</li></ul>	<ul style="list-style-type: none"><li>• PA 6 glass-finer filled 30%</li></ul>	<ul style="list-style-type: none"><li>• PA 6 heat stabiliser and UV-stabilizer.</li></ul>

**All ASP products can be formulated and implemented according to specific requirements of the customer, including staining.**  
**Advanced Systems Polymers SpA - Strada di Settimo, 404, 10056 - Torino (TO)**  
**Office: +39.011.22.41.352- Fax: +39.011.22.38.215**

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