

TERIMID B 38

Polyamide 6 Yarn	Conditions	Test Method	Units	B38 FL NAT	B38 FL EL2 NAT	B38 FL T1 NAT	B38 FL EL2 NAT	B38 VI5 FL NAT	B38 V30 FL NAT	B38 FL NERO	B38 FL EL2 NERO	B38 VI5 FL NERO	B38 V30 FL NERO	B38 VI5CH 25 NERO
Physical Properties														
Density	23°C	ASTM D792	g/cm ³	1.14	1.14	1.14	1.14	1.23	1.36	1.14	1.14	1.23	1.36	1.46
Linear Shrinkage		internal	%	1.5	1.7	1.5	1.7	0.7	0.4	1.5	1.7	0.7	0.4	0.5
Water absorption	24h / 23°C	ISO 62	%	2.4	2	2.4	2	1	0.8	2.4	2	1	0.8	0.7
Mechanical Properties														
Notched impact strength	23°C	ASTM D256	J/m	60	110	50	100	60	100	60	80	45	80	60
Charpy Notched impact strength	23°C	ISO 179/2A	KJ/m ²	5	9	4.5	8	7	11	4	4.5	5	10	-
Charpy unnotched impact strength	23°C	ISO 179/2	KJ/m ²	NB	NB	NB	NB	30	55	NB	NB	25	40	-
Tensile strength at yield	23°C	ASTM D 638	Mpa	75	50	70	45	110	160	70	50	100	150	105
Tensile elongation at break	23°C	ASTM D 638	%	>60	>100	>60	>100	4	3.5	>60	>100	4	3.5	3.5
Flexural Modulus	23°C	ASTM D 790	Mpa	2400	2000	2400	2000	4500	7000	2200	2100	4000	6000	3600

Polyamide 6 Yarn	Conditions	Test Method	Units	B38 FL NAT	B38 FL EL2 NAT	B38 FL TI NAT	B38 FL EL2 NAT	B38 VI15 FL NAT	B38 V30 FL NAT	B38 FL NERO	B38 FL EL2 NERO	B38 VI15 FL NERO	B38 V30 FL NERO	B38 VI15CH 25 NERO
Thermal Properties														
Melting point	-	internal	°C	220	220	220	220	220	220	220	220	220	220	220
Vicat softening point	49N 50°C/hour	ASTM D 1525	°C	205	190	205	190	200	200	200	195	200	200	-
Deflection temperature under load HDT	1,82 Mpa 120°C/hour	ASTM D 648	°C	65	60	65	60	190	200	65	60	190	200	205
Continuos service temperature	-	internal	°C	70	60	65	600	110	120	65	60	105	115	85
Eletrical properties														
Dieletric strenght	2 mm	ASTM D149	KV/mm	18	19	18	19	21	21	18	18	21	21	16
Volume resistivity	-	ASTM D257	Ohm*cm ²	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ	10 ⁿ
CTI (comparative tracking index)	-		V	>500	>500	>500	>500	500	500	>500	>500	500	500	500
Flame Resistance														
At-Fire behaviour	thickness 3,2mm	UL 94	Class	HB	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	-	650	650	-	-	-	-	-

Main Feautres

B38 FL NAT	B38 FL EL2 NAT	B38 FL TI NAT	B38 FL EL2 NAT	B38 V15 FL NAT	B38 V30 FL NAT	B38 FL NERO	B38 FL EL2 NERO	B38 V15 FL NERO	B38 V30 FL NERO	B38 V15CH25 NERO
<ul style="list-style-type: none"> • PA 6 yarn • high coloring • without TiO2 	<ul style="list-style-type: none"> • PA6 yarn • without TiO2 • impact modified 	<ul style="list-style-type: none"> • PA 6 yarn with TiO2 • whitish 	<ul style="list-style-type: none"> • PA6 yarn • whitish • impact modified 	<ul style="list-style-type: none"> • PA6 yarn • without TiO2 • 15% glass-fiber filled 	<ul style="list-style-type: none"> • PA6 yarn • whitout TiO2 • 30% glass fiber-filled 	<ul style="list-style-type: none"> • PA6 black yarn • with good characteristics 	<ul style="list-style-type: none"> • PA6 black yarn • fast cycle • impact modified 	<ul style="list-style-type: none"> • PA6 black yarn • 15% glass-fiber filled 	<ul style="list-style-type: none"> • PA6black yarn • 30% glass-fiber filled 	<ul style="list-style-type: none"> • PA6 black yarn • with 40% GF+CM filled

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