

**TECHNICAL DATA SHEET**  
**NYFLEX® TX 3500**

COPOLYESTER SHORE D 35



PHYSICAL PROPERTIES			
Filler Content	INTERNAL	%	-
Linear Mould Shrinkage [Med. Average]	INTERNAL	%	-
Water Absorption[24 h - 23° C]	ASTM D 570	%	0.75
Melt Flow Index [230°C/2 ,16 Kg]	ASTM D 1238	g/10 min	35
Specific Gravity	ASTM D 792	g/cm <sup>3</sup>	1.12
MECHANICAL PROPERTIES			
Tensile Strength at yield - at break	ASTM D 638	MPa	27
Elongation at Break	ASTM D 790	MPa	850
Flexural Modulus	ASTM D 790	MPa	60
IZOD Impact strength notched			
at 23° C	ISO 180/1A	KJ/m <sup>2</sup>	N.B.
at -20° C	ISO 180/1A	KJ/m <sup>2</sup>	N.B.
Tear Strength	ASTM D1004	N/mm	-
Abrasion Resistance	DIN 53516	mm <sup>3</sup>	-
Shore D Hardness - 15 Sec	ASTM D 2240	-	35
THERMAL PROPERTIES			
Melting Temperature	ASTM D 3418	°C	180
VICAT softening point			
A / 50	ASTM D 1525	°C	130
B / 50	ASTM D 1525	°C	-
FLAMMABILITY PROPERTIES			
Fire Resistance [1,6 mm th]	UL 94	-	HB
G.W.F.I. - Glow Wire Flammability Index - 1 mm	IEC 695-2-12	°C	-
G.W.F.I. - Glow Wire Flammability Index - 2 mm	IEC 695-2-12	°C	-
G.W.I.T. - Glow Wire Ignition Test - 1 mm	IEC 695-2-13	°C	-
G.W.I.T. - Glow Wire Ignition Test - 2 mm	IEC 695-2-13	°C	-
Oxygen Index	ASTM D 2863	%	20
ELECTRICAL PROPERTIES			
Surface Resistivity	ASTM D 257	Ohm	> 10 <sup>13</sup>
Dielectric Constant	ASTM D 150	-	4.5
Tracking Index : KC	DIN 53480	-	-

**DISCLAIMER**

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics POLIPLASTIC. No assurance can be implied that all molded articles will have the same properties as those listed. Data are obtained from specimens molded under controlled and standard conditions from representative samples of the compound described herein and do not constitute the contractual technical specification of the product. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use.