TDS OF PBT RESIN

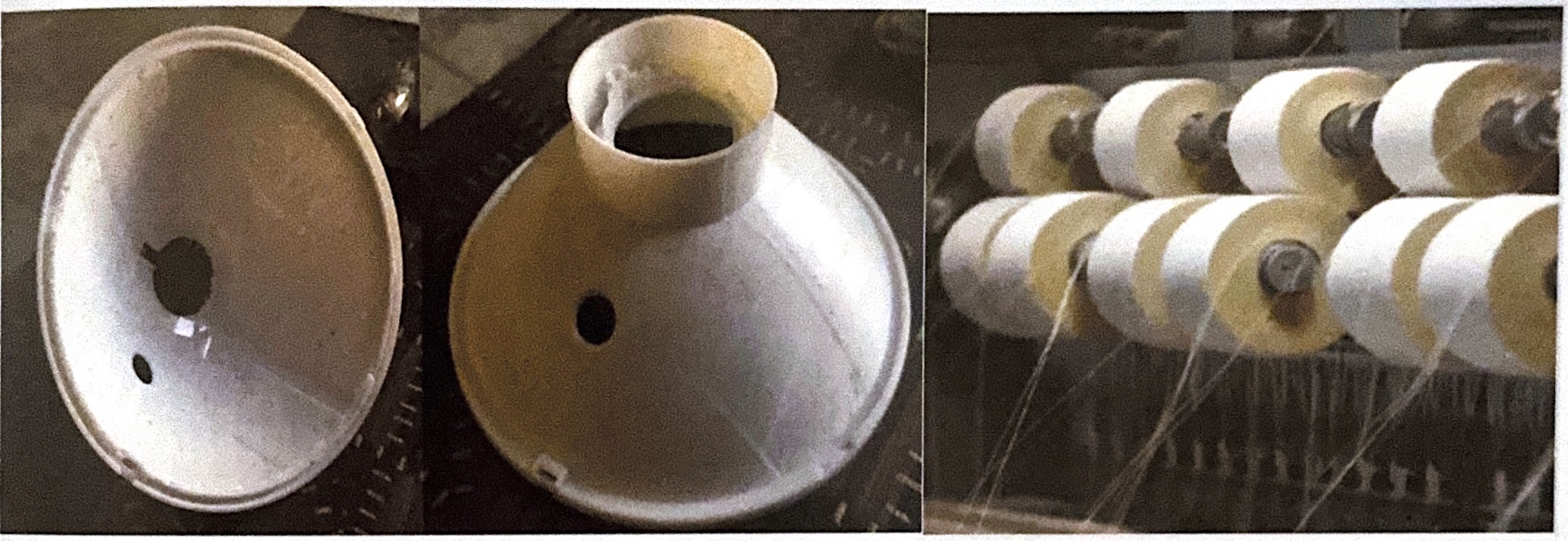
ITEM	UNIT	TEST METHOD	PBT Grade								
			MY08	MY08H	MY09	MY09H	MY10	MY10H	MY12	MY12H	MYC10GF30
Intrinsic Viscosity	Dl/g	GB/T14190-2017	0.830±0.015	0.850±0.015	0.900±0.015	0.950±0.015	1.050±0.015	1.100±0.015	1.2±0.015	1.25±0.015	-
Melting Point	℃	ASTM D3418-08	224±2.0	224±2.0	224±2.0	224±2.0	224±2.0	224±2.0	224±2.0	224±2.0	250±5.0
Carboxyl End Group	mol/t	GB/T14190-2017	≤25	≤25	≤28	≤28	≤28	≤30	≤30	≤30	-
Color (L)	-	GB/T14190-2017	≥88	≥88	≥88	≥88	≥88	≥88	≥88	≥88	-
Color (B)	-	GB/T14190-2017	4.0±2	4.0±2	4.0±2	4.0±2	4.0±2	4.0±2	4.0±2	4.0±2	-
Water content	%	GB/T14190-2017	≤0.4	≤0.4	≤0.4	≤0.4	≤0.4	≤0.4	≤0.4	≤0.4	≤0.3
Ash content	mg/kg	GB/T14190-2017	≤300	≤300	≤300	≤300	≤300	≤300	≤300	≤300	30000-32000
Weight of 100 particals	g	GB/T14190-2017	2.2±0.2	2.2±0.2	2.2±0.2	2.2±0.2	2.2±0.2	2.2±0.2	2.2±0.2	2.2±0.2	-
Density	g/cm3	ASTM D792-08 B	1.30-1.32	1.30-1.32	1.30-1.32	1.30-1.32	1.30-1.32	1.30-1.32	1.30-1.32	1.30-1.32	1.50-1.55
Melt Flow Index	g/10min	235 ℃ /2160g	52-62	46-55	35-42	27-32	16-20	12-16	8-11	7-9	21
Tensile Strength	Mpa	ASTM D638-10	50±5	50±5	50±5	50±5	50±5	50±5	50±5	50±5	118
Tensile Elongation at Break	%	ASTM D638-10	≥60	≥100	≥100	≥100	≥200	≥200	≥250	≥250	7±2
Izod Impact Strength-Notched	J/ m	ASTM D256-10 A	≥40	≥40	≥40	≥40	≥45	≥45	≥45	≥45	95
Dielectric Strength(2mm)	KV/cm	ASTM D149-09	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥15

Specific PBT upon request, further information please contact via info@amerisource.com.cn

Grade: MY10 Series

Application: Filament Spinning, Chemical Fiber

Performance Characteristics: Elasticity, High Color Fastness, Resistance To Light Aging, And Good Chlorine Resistance.Strong Weaving Performance.



PBT resin has excellent mechanical properties, including high strength and superi- or wear resistance. This enables PBT resin to withstand mechanical forces such as stretch- ing and pulling in textile production, and maintain long-term durability. This character- istic is important for manufacturing high-strength, durable fibers and textiles. PBT resin also exhibits excellent softness and elasticity, giving it excellent hand feel and comfort in textiles. This makes PBT resin fibers suitable for manufacturing products that require comfort, such as close fitting clothing and sportswear.

TDS OF PBT RESIN				
ITEM	UNIT	TESTMETHOD	MY10	MY10H
Intrinsic Viscosity	Dl/g	GB/T14190-2017	1.050±0.015	1.100±0.015
Melting Point	℃	ASTM D3418-08	≥222	≥222
Carboxyl End Group	mol/t	GB/T14190-2017	≤30	≤30
Color (L)	-	GB/T14190-2017	≥90	≥90
Color (B)	-	GB/T14190-2017	3±2	3±2
Water content	%	GB/T14190-2017	≤0.4	≤0.4
Ash content	mg/kg	GB/T14190-2017	≤300	≤300
Weight of 100 particals	g	GB/T14190-2017	2.2±0.2	2.2±0.2
Density	g/cm3	ASTM D792-08 B	1.30-1.32	1.30-1.32
Melt Flow Index	g/10min	ASTM D1238-10 A	23-32	15-20
Tensile Strength	Mpa	ASTM D638-10	55±5	55±5
Tensile Elongation at Break	%	ASTM D638-10	≥200	≥200
Izod Impact Strength-Notched	J/m	ASTM D256-10 A	≥45	≥45
Dielectric Strength (2mm)	KV/cm	ASTM D149-09	≥20	≥20