

TDS OF PBT RESIN

ITEM	UNIT	TEST METHOD	PBT Grade								
			MY08	MY08H	MY09	MY09H	MY10	MY10H	MY12	MY12H	MYC10GF30
Intrinsic Viscosity	DI/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	°C	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 °C /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: MY08 Series

Application: Electronics And Electrical Appliances

Performance Characteristics:

Heat Aging Resistance, Good Sterilization Performance ,Good Solvent Resistance RARU



PBT resin, renowned for its high fluidity, heat resistance, exceptional elasticity, and resistance to hydrolysis, has emerged as a preferred material across diverse industries. Its high fluidity enhances production efficiency while reducing energy consumption. Heat resistance guarantees consistent performance in elevated temperature conditions, thereby prolonging product longevity. Exceptional elasticity affords superior resilience and product recovery. Additionally, its resistance to hydrolysis ensures stability in moist environments. These attributes position PBT resin for expansive application prospects in sectors such as automotive, electronics, outdoor equipment, and beyond.

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ITEM	UNIT	TESTMETHOD	MY08	MY08H
Intrinsic Viscosity	DL/g	GB/T14190-2017	0.830±0.015	0.850±0.015
Melting Point	°C	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	65-80	55-65
Tensile Strength	Mpa	ASTM D638-10	50±5	55±5
Tensile Elongation at Break	%	ASTM D638-10	≥60	≥100
Izod Impact Strength-Notched	J/ m	ASTM D256-10 A	≥40	≥40
Dielectric Strength(2mm)	KV/cm	ASTM D149-09	≥20	≥20