

TDS OF PBT RESIN

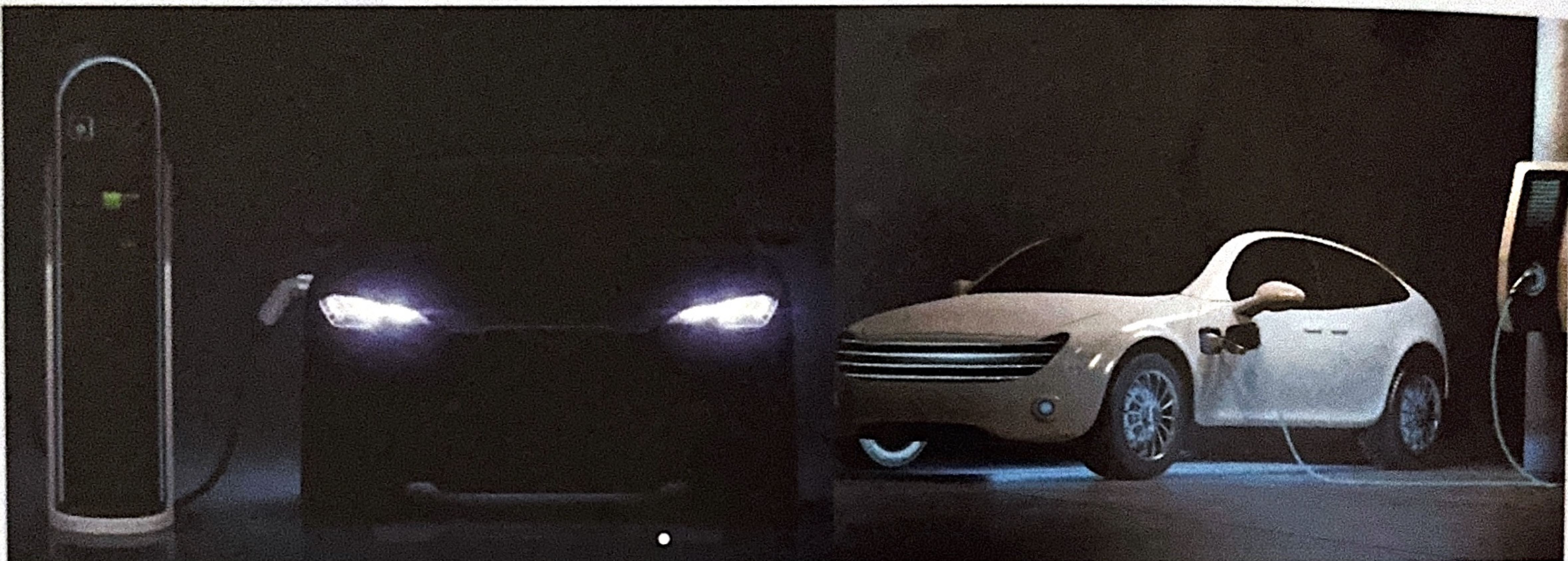
ITEM	UNIT	TEST METHOD	PBT Grade								
			MY08	MY08H	MY09	MY09H	MY10	MY10H	MY12	MY12H	MYC10GF30
Intrinsic Viscosity	DI/g	GB/T14190-2017	0.830±0.015	0.850±0.015	0.900±0.015	0.950±0.015	1.050±0.015	1.100±0.015	1.2±0.015	1.25±0.015	-
Melting Point	°C	ASTM D3418-08	224±2.0	224±2.0	224±2.0	224±2.0	224±2.0	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: MY09 Series

Application: Automotive Parts (New Energy And Hybrid Vehicles)

Performance Characteristics: Heat Aging Resistance, Fatigue Resistance.Low Water Absorption.



TDS OF PBT RESIN

ITEM	UNIT	TESTMETHOD	MY09	MY09H
Intrinsic Viscosity	DI/g	GB/T14190-2017	0.900±0.015	0.950±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	45-55	34-45
Tensile Strength	Mpa	ASTM D638-10	55±5	55±5
Tensile Elongation at Break	%	ASTM D638-10	≥100	≥100
Izod Impact Strength-Notched	J/ m	ASTM D256-10 A	≥40	≥40
Dielectric Strength(2mm)	KV/cm	ASTM D149-09	≥20	≥20

Due to its outstanding insulating, temperature-resistant, and mechanical proper- ties, PBT resin finds extensive application in the manufacturing of electronic and electrical equipment. Its high insulating properties effectively prevent short circuits and leakage, while its temperature resistance ensures stabil- ity in high-temperature environments. Moreover, its mechanical properties enhance durability and impact resistance. Furthermore, its chemical stability enables devices to operate reliably in harsh environments. Consequently, PBT resin stands as an indispensable material in the manufacturing of electronic and electri- cal equipment.