TDS OF PBT RESIN

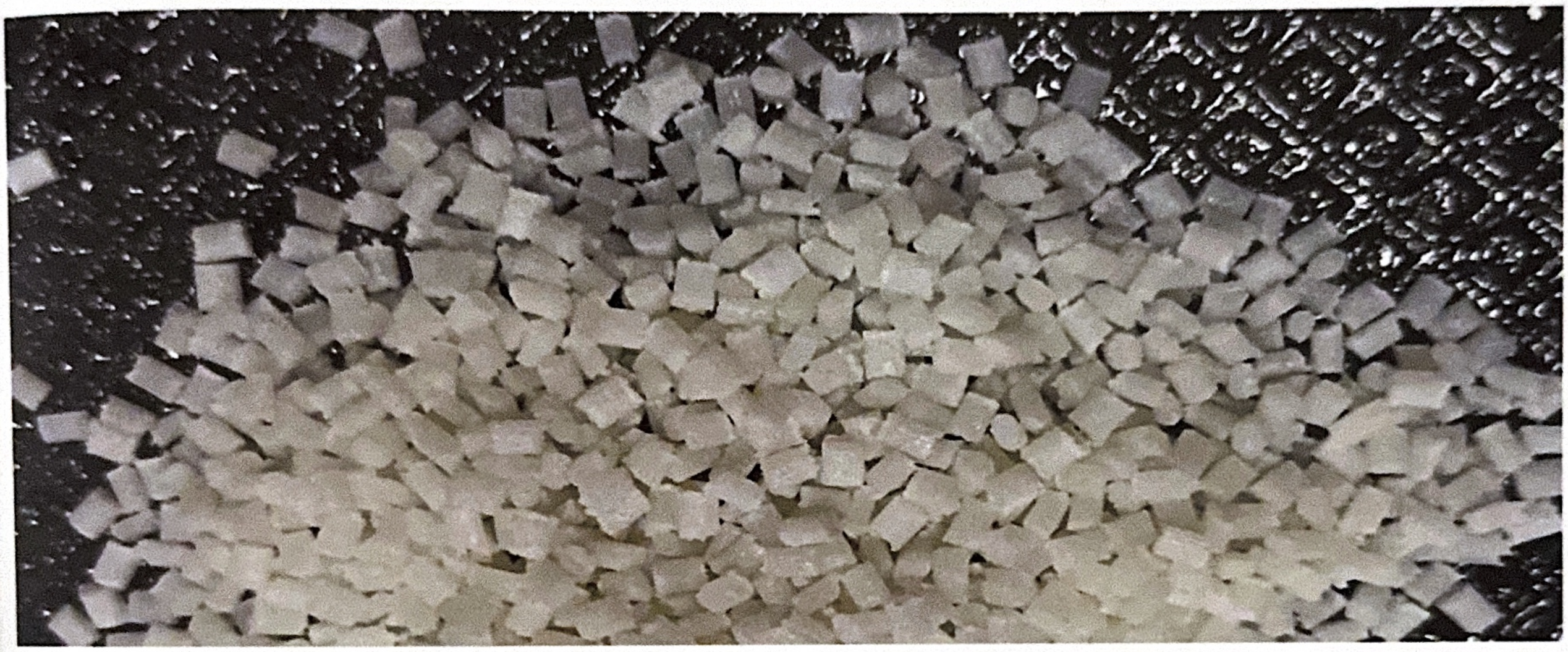
ITEM	UNIT	TEST METHOD	PBT Grade								
			MY08	MY08H	MY09	MY09H	MY10	MY10H	MY12	MY12H	MYC10GF30
Intrinsic Viscosity	Dl/g	GB/T14190-2017	0.830±0.015	0.850±0.015	0.900±0.015	0.950±0.015	1.050±0.015	1.100±0.015	1.2±0.015	1.25±0.015	-
Melting Point	℃	ASTM D3418-08	224±2.0	224±2.0	224±2.0	224±2.0	224±2.0	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 : PBT MYC10 GF30 NC

Application : Electric and Electronic parts , Automotive parts , Aviation parts , Furnitures and other industrial parts.

Performance Charactristics : polybutylene terephthalate grade reinforced with glass fiber , improved toughness and heat resistant grade. PBT MYC10 GF30 NC exhibit s , low shrinkage , and good dimensional stability, widely used in injection molding.



PBT resin reinforced by glass fiber is a preferred material in various industries due to its key properties:

High Fluidity, Enhances production efficiency and reduces energy consumption.

Heat Resistance, Ensures consistent performance at high temperatures and extends product longevity.

Exceptional Elasticity, Provides superior resilience and aids in product recovery.

Resistance to Hydrolysis, Guarantees stability in moist environments.

These attributes make PBT resin suitable for applications in sectors like automotive, electronics, and outdoor equipment.

TDS OF PBT RESIN GLASS FIBER REINFORCED

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE
Ash Contenet	ISO 3451	%	32
Relative Denssity	ISO 1183	g/cm³	1.52
Molding Shirinkage	ISO 2577, 294	%	0.93
Moisture Content	ISO 62	%	0.28
MFI 235℃/2.16kg	ISO 1133	g/10min	21
MECHANICAL PROPERTIES	**METHOD**	**UNIT**	**VALUE**
Tensile Strength (5mm/min)	ISO 527-2	MPa	118
Elongation At Break (5mm/min)	ISO 527-2	%	7
Tensile Modulus (5mm/min)	ISO 527-2	MPa	7452
Notched Impact Strength-Izod	ISO 180/A	KJ/m²	9.5
Un Notched Impact Strength-Izod	ISO 180/U	KJ/m²	62
Hardness	ISO 868	Shore D	72

ELECTRICAL & THERMAL PROP.		METHOD	UNIT	VALUE
CTI (Solution A)		EN 60112	V	250
Surface Resistivity		ASTM D257	Ω/sq	1,00E+13
HDT (120 C/h)	264psi	ISO 75-2	C	200
	66psi			220
Flammability	3.2mm	UL94		HB
Melting Point	3.2mm	ISO 3146	C	245 min

Injection Condition

Loading		Injection		Degassing		Mold Temperature
Speed	Pressure	Speed	Pressure	Temperature	Time	
60	80	60 - 90	80-120	110 - 120 C	3 h	80 C

Injection Zone Temperature

ZONE	5	4	3	2	NOZZLE
TEMP.	200 C	220 C	250 C	270 C	275 C