



TPT PETROCHEMICALS PUBLIC COMPANY LIMITED

Specification of TPT Petrochemicals Public Company Limited

Product: Purified Terephthalic Acid (PTA)

Parameters	Test method	Unit	Specification
Appearance	TPT-WI-LAB-152 (Visual inspection)	N.A	White free flowing crystalline powder free from visible contamination
Acid Number	TPT-WI-LAB-099 (Auto titrator)	mg KOH/gr.TA	675 +/- 2
4-Carboxybenzaldehyde (4-CBA)	TPT-WI-LAB-156 (Capillary Electrophoresis)	wt. ppm	25 Max.
Paratoluic Acid + 4-CBA	TPT-WI-LAB-156 (Capillary Electrophoresis)	wt. ppm	190 Max.
Color "b*"	TPT-WI-LAB-102 (Color view-BYK Gardner)	N.A	0.8 +/- 0.4
Total significant metals (Co, Mn, Cr, Ni, Ti, Mo)	TPT-WI-LAB-105 - Inductively coupled plasma(ICP-AES)	wt. ppm	4 Max.
Iron Fe	TPT-WI-LAB-105 -Inductively coupled plasma(ICP-AES)	wt. ppm	1 Max.
Ash	TPT-WI-LAB-101 - Gravimetric(Ignition in furnace)	wt. ppm	6 Max.
Moisture	TPT-WI-LAB-107 (KF Titration)	wt. %	0.15 Max.
Color in 2 Molar KOH solution	TPT-WI-LAB-100 (Color comparator)	Hazen units	10 Max.
Millipore	TPT-WI-LAB-104 (Color view-BYK Gardner)	N.A	0.90 Min.
Median Size Particle	TPT-WI-LAB-106 (Laser diffraction)	Micron	105 +/- 20