

Lotte[®] SM598

Titanpro SM598 is a clarified grade designed for high transparency articles. The base resin meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(a)(3)(i) and (c)3.1a. The adjuvant meet their respective FDA regulations and 21 CFR 177.1520(b). In summary, this resin meets the FDA criteria covering safe use of polyolefin articles and component of articles intended for food contact use.
TSCA Registry: CAS# 9010-79-1

Physical Properties	Metric	English	Comments
Base Resin Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570
Base Resin Melt Index	30 g/10 min @Temperature 230 °C	30 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	96	96	ASTM D785A
Tensile Strength, Yield	29.4 MPa	4270 psi	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	1.18 GPa	171 ksi	ASTM D790B
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	ASTM D648

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	See notes for details.