

Wanthane® WHT-1690AB

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-1690AB is polyester-based TPU for extrusion molding applications, including blow molding and T-die extrusion, supplied in form of transparent, translucent, colorless or slightly yellowish film with excellent strength and tear resistance.

Applications:

Package, Exterior Decoration Parts, Fabric Coating.

General Information			
Features	Good strength		
	Good tear strength		
Uses	Packaging		
	Coating application		
	Fabric		
	Decorative parts		
Appearance	Translucent		
	Transparent-Slightly Yellow		
	Colorless		
Forms	Films		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	10.0	MPa	ASTM D412
300% strain	18.0	MPa	ASTM D412
Tensile Strength	36.0	MPa	ASTM D412
Tensile Elongation (Break)	490	%	ASTM D412
Tear Strength	120	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-20.0	°C	ASTM D3417
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 - 110	°C	

Drying Time	2.0 - 3.0	hr
Cylinder Zone 1 Temp.	180	°C
Cylinder Zone 2 Temp.	185	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 4 Temp.	195	°C
Cylinder Zone 5 Temp.	195 - 200	°C

Extrusion instructions

Extruder Feed Section: 175

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