

Wanthane® WHT-1172IC

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyester-based grade Injection molding grade

FEATURES: Excellent mechanical properties, high abrasion resistance, good wear resistance, short cycle times

Applications: Rigid / flexible composite systems, engineering components, etc

General Information			
Features	Fast molding cycle		
	Good wear resistance		
	Good wear resistance		
Uses	Engineering accessories		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
DIN Abrasion	42.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	28.0	MPa	ASTM D412
Tensile Strength (Break)	48.0	MPa	ASTM D412
Tensile Elongation (Break)	290	%	ASTM D412
Tear Strength	260	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 24 hr	40	%	ASTM D395
70°C, 22 hr	76	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-9.00	°C	ASTM D3418
Vicat Softening Temperature	190	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	210	°C	
Middle Temperature	215	°C	
Front Temperature	220	°C	
Nozzle Temperature	225	°C	

Mold Temperature	23	°C
Screw L/D Ratio	25.0:1.0 to 30.0:1.0	
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0	

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