

AR® HT

Thermoplastic
Greene, Tweed & Co.

Message:

AR® HT is a proprietary thermoplastic material specifically developed for use as bushings, bearings, and wear rings in pumps handling abrasive media up to 250°F (121°C). ARHT provides outstanding chemical, thermal shock, and impact resistance, making it a better wear material than traditional rubber, ceramic or bronze materials.

Greene, Tweed's proprietary AR thermoplastics materials exhibit outstanding wear characteristics in media containing solids. AR combines excellent abrasive resistance, good dry run capability and superior vibration dampening characteristics with no hydrolysis or swell.

ARHT works well in a variety of abrasive pump applications including those working with circulating water, open and closed cooling water, river water, screen water and crude oil pumps. When using ARHT pump users can operate their equipment with much tighter clearances, boosting efficiency and improving process reliability.

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Thermal Shock Resistance		
	Good Wear Resistance		
	Low Friction		
	Machinable		
	Vibration Damping		
Uses	Bearings		
	Bushings		
	Pump Parts		
Appearance	Grey		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
-- ¹	3870	MPa	
0.5% Secant	3180	MPa	
Tensile Strength (Break)	35.2	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus			ASTM D790
-- ²	3630	MPa	
0.5% Secant	3410	MPa	

Flexural Strength (Break)	60.0	MPa	ASTM D790
Compressive Strength	67.6	MPa	ASTM D695
Flexural Strain at Break	2.9	%	ASTM D790
Service Temperature	-73 to 121	°C	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (-18 to 41°C)	2.9E-5	cm/cm/°C	ASTM D696
NOTE			
1.	Young's		
2.	Young's		

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