

Greene Tweed AR1 Abrasive-Resistant Thermoplastic

Category : Polymer , Thermoplastic

Material Notes:

Sand and other abrasives are often a challenge for pump users in the power industry. Clearances on line shaft bearings and bowl wear rings open up, increasing pump vibrations and reducing pump efficiency. Greene Tweed's proprietary AR1 thermoplastic materials exhibit outstanding wear characteristics in media containing solids. AR1 offers excellent abrasive resistance as well as chemical resistance approaching that of PTFE. AR1 is rated from ambient to 120°F (49°C). AR1 is easy to machine, and clearance requirements are easily determined. AR1 works well in a variety of pumps in the power industry including those working with circulating water as well as screen wash pumps. AR materials have performance characteristics that exceed traditional technologies such as cutlass rubber, bronze and carbon materials. Applications: Circulating water pumps, Open and closed cooling water pumps, River water pumps, Screen wash pumps, Sump pumps. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-AR-1-Abrasive-Resistant-Thermoplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 g/cc	2.00 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	15.7 MPa	2270 psi	ASTM D4745
Elongation at Break	300 %	300 %	ASTM D1457
Tensile Modulus	1.14 GPa	165 ksi	ASTM D638
Flexural Strength	19.2 MPa	2790 psi	at 5% strain; ASTM D790
Flexural Modulus	1.08 GPa	157 ksi	ASTM D790
Compressive Strength	18.6 MPa	2700 psi	ASTM D695
Compressive Modulus	0.958 GPa	139 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	108 µm/m-°C	60.0 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	48.9 °C	120 °F	
Minimum Service Temperature, Air	15.6 °C	60.0 °F	

Descriptive Properties	Value	Comments
Color	Brown	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China