

UHMW modified with antioxidants, which reduces the oxidation rate at temperatures up to 130°C of continuous use or up to 180° of peak temperature, maintaining the physical-chemical properties. With a very low friction coefficient, it can be used in the food industry, as well as on conveyor belts close to heat sources. It's also suitable for asphalt truck coatings and coal equipment coatings. Available in red, in thicknesses from 10 to 25mm

General Properties			
Characteristics	Method	Units	Values
Density	ASTM D792	g/cm3	0,94
Average Molecular Weight		g/mol	8.0 x 10 ⁶
Water Absorption	ASTM D570	%	<0,01
Flammability	UL94	-	НВ

Mechanical Properties

Characteristics	Method	Units	Values
Tensile Strenght at Yield	ASTM D638	Мра	21
Tensile Strenght at Break	ASTM D638	Мра	>30
Elongação até a ruptura	ASTM D638	%	220
Flexural Modulus of Elasticity	ASTM D790	Мра	>700
Flexural Strenght	ASTM D790	MPa	22
Abrasion Resistance (Sand Slurry Test)	ABNT NBR 14922	-	24
IZOD Impact (notched)	ASTM D256	-	No Break
Compressive Strenght, 10% deformation	ASTM D695	MPa	20
Compressive Modulus of Elasticity	ASTM D695	Мра	480
Hardness	ASTM D2240	Shore D	65
Static Friction Coefficent	ASTM D1894	-	0,1
Kinetic Friction Coefficient	ASTM D1894	-	0,09

Thermal Properties

Thermal Properties				
Characteristics	Method	Units	Values	
Melt Temperature	ASTM D3418	°C	133	
Thermal Condutivity @ 23°C	ASTM D177	W / (m * K)	0,4	
Specific Heat @ 23°C	ASTM E1269	Cal/ g ºC	0,48	
Coefficient of Linear Expantion (30 - 100°C)	ASTM D696	10-4 / ºC	1,5	
Service Temperature (Continous, in air)	Média	°C	125	
Service Temperature (short period)	Média	°C	180	
Heat Deflexion Temperature	ASTM D648	ºF	116	

Electrical Properties

Characteristics	Method	Units	Values
Dielectric Strenght	ASTM D149	kV/cm	900
Dielectric Constant @ 1Khz	ASTM D150	-	2,3
Surface Resistivity	ASTM D257	Ω	>1015
Dissipation Factor, 10-Hz	ASTM D150	-	< 0,5 x 10 ³

- 1- The mentioned values in this report can be changed at any moment without Baron previous comunication.
- 2 -The informations presented in this data sheet reflects typical values of the resin specificatios, and tests in our laboratories, and should not be considered as absolute or warranted values. Only the properties and values mentioned on the certificate of quality are considered as guarantee of the product.
- 3- Does not contain the substance Bisphenol A (BPA, CAS# No.80-05-7)
- $\hbox{4-The content of this Data Sheet replaces revisions published for this product.}\\$

