

ColorRx® PEI-1600RX

Americhem - Polyetherimide

General Information
Product Description

PEI-1600RX is a high flow injection molding grade of amorphous polyetherimide (PEI) with excellent mechanical, electrical and dimensional properties. It is suitable for healthcare applications and sterilizable by EtO, steam, UV-C and gamma radiation.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Features	<ul style="list-style-type: none"> Autoclave Sterilizable Biocompatible E-beam Sterilizable 	<ul style="list-style-type: none"> Ethylene Oxide Sterilizable Excellent Colorability Heat Sterilizable 	<ul style="list-style-type: none"> Radiation Sterilizable Steam Sterilizable
Uses	<ul style="list-style-type: none"> Connectors Engineering Parts Housings 	<ul style="list-style-type: none"> Industrial Parts Medical/Healthcare Applications Metal Replacement 	<ul style="list-style-type: none"> Surgical Instruments
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.36		ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	15900	psi	ASTM D638
Tensile Strength ² (Break)	12200	psi	ASTM D638
Tensile Elongation ² (Yield)	7.0	%	ASTM D638
Tensile Elongation ² (Break)	70	%	ASTM D638
Flexural Modulus ²	495000	psi	ASTM D790
Flexural Strength ²	25000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.252 in)	390	°F	ASTM D648

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

