

AuroraGuard™ 302

Aurora Material Solutions, LLC - Polyetherimide

General Information

Product Description

Molding Grade PEI

Formerly known as EnTor 302

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Filler, 10% Filler by Weight
Features	• Metallizable
Uses	• Automotive Applications • Electrical/Electronic Applications
Appearance	• Black
Processing Method	• Injection Molding • Profile Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	5.0E-5 to 7.0E-5	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	14300	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	447000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	390	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.13 in	V-0		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	300	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	630 to 750	°F
Middle Temperature	640 to 750	°F
Front Temperature	650 to 750	°F
Nozzle Temperature	650 to 750	°F
Processing (Melt) Temp	660 to 750	°F
Mold Temperature	275 to 325	°F

