AuroraGuard™ PSU20GF

Aurora Material Solutions, LLC - *Polysulfone*

General Information

Product Description			
Medium Molecular Weight Molding Grade Polysulfone Formerly known as EnFone 20GF			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Molecular Weight		
Uses	• Automotive Applications	• Industrial Applications	
Appearance	• Natural Color		
Processing Method	• Injection Molding		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.40		ASTM D792
Melt Mass-Flow Rate (MFR) (343°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	3.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	820000	psi	ASTM D638
Tensile Strength (Yield)	13500	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	750000	psi	ASTM D790
Flexural Strength	20800	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)	345	°F	ASTM D648
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.13 in)	HB		UL 94

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	300 to 325	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	25 to 75	%
Rear Temperature	620 to 670	°F
Middle Temperature	630 to 680	°F
Front Temperature	640 to 690	°F
Nozzle Temperature	650 to 700	°F
Processing (Melt) Temp	650 to 750	°F
Mold Temperature	275 to 350	°F
Back Pressure	0.00 to 50.0	psi
Screw Speed	50 to 100	rpm
Vent Depth	1.5E-3 to 3.0E-3	in