InStruc® PPAIM

Americhem - *Polyphthalamide*

General Information

Product Description			
IMPACT MODIFIED POLYPHTHALAMIDE			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Dimensional Stability • High Impact Resistance	• Impact Modified • Low Temperature Toughness	
Uses	• Aerospace Applications • Connectors • Consumer Applications • Electrical/Electronic Applications • Engineering Parts	• Housings • Industrial Applications • Industrial Parts • Metal Replacement • Military/Defense Applications	• Oil/Gas Applications • Outdoor Applications • Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.13		ASTM D792
Molding Shrinkage - Flow	0.020	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	400000	psi	ASTM D638
Tensile Strength	12000	psi	ASTM D638
Tensile Elongation (Yield)	> 50	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Flexural Strength	14500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (0.125 in)	2.8	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	250	°F	ASTM D648

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	610 to 625	°F
Mold Temperature	275 to 300	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

Notes

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