Amodel® AT-6115 HS

Polyphthalamide

Solvay Specialty Polymers

Message:

Amodel AT- 6115 HS is a 15% glass fiber reinforced toughened grade polyphthalamide (PPA) resin with higher elongation than other 15% glass fiber reinforced grade AMODEL resin. Specially developed for car snap-on electronic connectors. Good fluidity and short molding cycle. -Black: AT-6115 HS BK 324
natural color: AT-6115 HS NT

General Information	
UL YellowCard	E95746-458902
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight
Additive	Impact modifier heat stabilizer Lubricant demoulding
Features	Impact modification Fast molding cycle High liquidity Thermal Stability Lubrication Good demoulding performance Extended tensile rate
Uses	Valve/valve components Industrial components Industrial application Machine/mechanical parts Metal substitution Connector Parts under the hood of a car Automotive Electronics Application in Automobile Field General Shell
RoHS Compliance	RoHS compliance
Appearance	Black Natural color

Forms		Particle		
Processing Method		Water temperature mold injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.22	--	g/cm³	ISO 1183/A
Molding Shrinkage				ASTM D955
Flow	1.0	--	%	ASTM D955
Transverse flow	1.1	--	%	ASTM D955
Water Absorption (24 hr)	0.20	--	%	ASTM D570
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus				
--	5380	4200	MPa	ASTM D638
23°C	5200	--	MPa	ISO 527-2
100°C	3100	--	MPa	ISO 527-2
Tensile Stress				
Fracture, 23°C	126	--	MPa	ISO 527-2
Fracture, 100°C	68.3	--	MPa	ISO 527-2
--	122	95.8	MPa	ASTM D638
Tensile Elongation				
Fracture	3.4	5.3	%	ASTM D638
Fracture, 23°C	4.1	--	%	ISO 527-2
Fracture, 100°C	7.7	--	%	ISO 527-2
Flexural Modulus				
--	4410	3450	MPa	ASTM D790
23°C	4270	--	MPa	ISO 178
100°C	2340	--	MPa	ISO 178
Flexural Strength				
--	165	115	MPa	ASTM D790
23°C	170	--	MPa	ISO 178
100°C	66.9	--	MPa	ISO 178
Compressive Strength	100	--	MPa	ASTM D695
Shear Strength	56.5	44.1	MPa	ASTM D732
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	11	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	76	--	kJ/m²	ISO 179/1eU
Notched Izod Impact				
--	91	80	J/m	ASTM D256
23°C	12	--	kJ/m²	ISO 180/1A
Unnotched Izod Impact				
--	850	--	J/m	ASTM D256
23°C	55	--	kJ/m²	ISO 180/1U

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	298	--	°C	ISO 75-2/B
1.8 MPa, not annealed	251	--	°C	ISO 75-2/A
1.8 MPa, annealed	260	--	°C	ASTM D648
Melting Temperature	305	--	°C	ISO 11357-3, ASTM D3418
Linear thermal expansion coefficient				ASTM E831
Flow: 0 to 100°C	2.2E-5	--	cm/cm/°C	ASTM E831
Flow: 100 to 200°C	3.0E-5	--	cm/cm/°C	ASTM E831
Lateral: 0 to 100°C	9.0E-5	--	cm/cm/°C	ASTM E831
Lateral: 100 to 200°C	1.2E-4	--	cm/cm/°C	ASTM E831

Additional Information
调节后的 Conditioned to 50% RH in accordance with 1SO-1110, Accelerated Method.

Injection	Dry	Unit
Drying Temperature	110	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.045	%
Rear Temperature	316 - 324	°C
Front Temperature	327 - 332	°C
Processing (Melt) Temp	321 - 335	°C
Mold Temperature	65.6 - 93.3	°C

Injection instructions
射出速度: 3～4英寸/秒 保压压力:射出压力的50%

Recommended distributors for this material

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