

TECHNICAL DATA SHEET

## TECHNYL C 116 GY R7035 LP

### DOMAMID 6LV 910 GYR7035

Polyamide 6, improved flowability, for injection moulding

#### General

Certifications	RoHS EC 1907/2006 (REACH)	UL listed product
Polymer type	PA6	
Feature	improved flowability	UL 94 V2
Colors available	black blue red	grey white
Forms	pellets	
Processing technology	injection moulding	

#### Product identification

ISO 1043 abbreviation	PA6
ISO 16396 designation	PA6,M,S12-030

Condition	Standard	Unit	Value
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#### Physical properties

Condition	Standard	Unit	Value	
Density	ISO 1183	g/cm <sup>3</sup>	1.14	
Humidity absorption	T=23°C, 50% RH (equivalent ISO 1110)	ISO 62	%	3.3 - 3.4
Water absorption	24 hr, 23°C, immersion in water, thickness 2mm	ISO 62	%	1.9 - 2.0
Water absorption, saturation			%	9.1
Molding shrinkage, parallel	ISO 294-4, 2577	%		1.6 - 1.8
Molding shrinkage, normal	ISO 294-4, 2577	%		1.6 - 1.8

	Condition	Standard	Unit	Value
<b>Mechanical properties</b>				<b>dam / cond.*</b>
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3000 / -
Stress at break		ISO 527-1/-2	MPa	45 / -
Strain at break		ISO 527-1/-2	%	15 / -
Yield stress		ISO 527-1/-2	MPa	78 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2600 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	70 / -

**\*: conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
<b>Thermal properties</b>				
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	188
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	62
Vicat softening temperature	50Å°C/h - 50N	ISO 306	°C	200

Condition	Standard	Unit	Value
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## Burning behaviour

Condition	Standard	Unit	Value
UL Yellow Card availability 1	<a href="#"><u>Click here to have access to the UL Yellow Card availability 1 -&gt; YC TECHNYL C 116</u></a>		
Flammability, 0.75 mm	0.75 mm	UL 94	V2
Flammability, 1.5 mm	1.5 mm	UL 94	V2
Flammability, 3.0 mm	3.0 mm	UL 94	V2
Glow-wire flammability index, GWFI, 0.75 mm	0.75 mm	IEC 60695-2-12	°C 960
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C 960
Glow-wire flammability index, GWFI, 3.0 mm			°C 960
Glow-wire ignition temperature, GWIT, 0.75 mm	0.75 mm	IEC 60695-2-13	°C 960
Glow-wire ignition temperature, GWIT, 1.5 mm	1.5 mm	IEC 60695-2-13	°C 900
Glow-wire ignition temperature, GWIT, 3.0 mm	3.0 mm	IEC 60695-2-13	°C 725
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302	<100 mm/min

Condition	Standard	Unit	Value
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## Electrical properties

Condition	Standard	Unit	Value
Volume resistivity	IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity	IEC 62631-3-1	ohm	1.0E13

## Processing conditions

Drying temperature/time	75-85Å°C / 2-4h (with dew point of dried air < -30 Å°C)
Suggested max moisture	0.2 %
Rear temperature	235 °C
Middle temperature	240 °C
Front temperature	245 °C
Recommended melt temperature	245 °C

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## Processing conditions

Recommended mould temperature	80 °C
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