



Technyl® eXten D 437P			
PA610		Solvay Engineering Plastics	
Product Texts			
<small>High viscosity embossed polycarbonate PA610 for extrusion applications</small>			
Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	2.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	2.3 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	890 / 830	MPa	ISO 527-1/-2
Stress at 50% strain	50 / 41	MPa	ISO 527-1/-2
Strain at break	>50 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	25 / 55	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / 3.5	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	215 / *	°C	ISO 11357-1/-3
Thickness tested	1.6 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Other properties			
ISO Data			
Water absorption	3.1 / *	%	Sim. to ISO 62
Humidity absorption	0.5 / *	%	Sim. to ISO 62
Density	1050 / -	kg/m ³	ISO 1183
Other text information			
Injection Molding			
<small>The material is supplied in single bags, ready for use. In the case that the virgin material has absorbed</small>			
moisture, it must be dried to a final moisture content less than 0,1% with a dehumidified air drying equipment at approximately 80°C.			
Extrusion conditions			
Feed zone °C 205-215			
Compression zone °C 215-225			
Front zone °C 215-225			
Die temperatures °C 220-230			
Chemical Media Resistance			
Acids			
☺	Acetic Acid (5% by mass) (23°C)		
☹	Sulfuric Acid (38% by mass) (23°C)		
☹	Sulfuric Acid (5% by mass) (23°C)		
Alcohols			
☺	Ethanol (23°C)		

Hydrocarbons

☺ Toluene (23°C)

Ketones

☺ Acetone (23°C)

Mineral oils

☺ SAE 10W40 multigrade motor oil (23°C)

Standard Fuels

☹ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

Salt solutions

☺ Zinc Chloride solution (50% by mass) (23°C)

Other

- ☹ Hydrogen peroxide (23°C)
- ☹ Ethylene Glycol (50% by mass) in water (108°C)
- ☺ 50% Oleic acid + 50% Olive Oil (23°C)
- ☹ Deionized water (90°C)
- ☹ Phenol solution (5% by mass) (23°C)