



Technyl® eXten D 458P			
PA610-I		Solvay Engineering Plastics	
Product Texts			
<small>High viscosity embossed polycarbonate PA610-I for extrusion applications providing low end part warpage.</small>			
Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	3.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	3.0 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	800 / 550	MPa	ISO 527-1/-2
Stress at 50% strain	40 / 34	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)	87 / 117	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	15 / 19	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	1.6 / *	%	Sim. to ISO 62
Humidity absorption	0.5 / *	%	Sim. to ISO 62
Density	1040 / -	kg/m ³	ISO 1183
Characteristics			
Special Characteristics			
High impact or impact modified			
Other text information			
Injection Molding			
<small>The material is supplied in single bags, ready for use. In the cases 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 215-225°C			
Compression zone °C 225-235°C			
Front zone °C 225-235°C			
Die temperatures °C 230-240°C			
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)