


**Technyl® eXten D 458P**

PA610-I

Solvay Engineering Plastics

**Product Texts**
High viscosity unfilled polycarbonate (PA6) for extrusion applications providing low end part warpage.

Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	3.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	3.0 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
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 <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	87 / 117	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	15 / 19	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
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
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	1.6 / *	%	Sim. to ISO 62
Humidity absorption	0.5 / *	%	Sim. to ISO 62
Density	1040 / -	kg/m <sup>3</sup>	ISO 1183

**Characteristics**
**Special Characteristics**

High impact or impact modified

**Other text information**
**Injection Molding**
The material is supplied in single bags, ready for use. In the case that the virgin material has absorbed

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)