

## DATASHEET

### STANDARD PIPE MATERIAL

## POLIDUX *REPSOL* A – 300

### Product description

*POLIDUX ABS A-300 is specially indicated for extrusion and thermoforming and is shockproof. It has a high gloss finish and rigidity combined with excellent impact at low temperatures.*

### Applications

*The most widespread uses of POLIDUX A-300 include industrial halogen-free sections and pipes, parts for the car industry, industrial vehicles and, owing to its resistance to low temperatures, it is widely used in refrigerators.*

### Properties

Properties	Data	Unit	Standard	
			ASTM	ISO
<b><u>MECHANICAL</u></b>				
Izod impact test Notched 12.7 x 12.7 mm sample at 23°C				
<i>RESISTANCE TO TRACTION</i>				
<i>Elastic limit</i>	20	<i>kJ/m<sup>2</sup></i>	<i>D-256-A</i>	<i>180</i>
<i>Breaking point</i>	400	<i>kgf/cm<sup>2</sup></i>	<i>D-638</i>	<i>527</i>
<i>Breaking point</i>	360	<i>kgf/cm<sup>2</sup></i>	<i>D-638</i>	<i>527</i>
<i>RESISTANCE TO STRETCHING</i>				
<i>Elastic limit</i>	2.3	%	<i>D-638</i>	<i>527</i>
<i>Breaking point</i>	35	%	<i>D-638</i>	<i>527</i>
<i>Traction module</i>	22000	<i>kgf/cm<sup>2</sup></i>	<i>D-638</i>	<i>527</i>
<b><u>THERMAL</u></b>				
<i>Vicat (1 kg – 50° C/h)</i>	107	°C	--	<i>R 306</i>
<i>Vicat (5 kg – 50° C/h)</i>	96	°C	--	<i>R 306</i>
<i>HDT (18.6 kg/cm<sup>2</sup>).</i>	90	°C	--	<i>75</i>
<i>Temperature range during extreme use</i>	-40 to 80	°C		

*The mechanical properties have been measured at 23°C and 50% RH.*

*DOWER SECURITY uses this raw material to manufacture pipes and fittings for its aspiration systems and can guarantee, as required by certain manufacturers, that they are completely chlorine- and halogen-free.*