

## Technical Datasheet ABS B532

### Main Features

Sheets and profile. Good impact strength High toughness

### Main Application

Plain or coextruded with high draw Ratios for refrigeration, sanitary Automotive, Packaging, housholding (profiles)

Properties	Test Condition	Test Methods	Units	
<b>General</b>				
Density		ISO 1183	g/cm <sup>3</sup>	1.04
Water Absorption		ASTM D 570	%	0.3
<b>Rheological</b>				
Melt Flow Rate (MFR)		ISO 1133	g/10min	5
<b>Mechanical</b>				
Tensile Strength	50 mm/min	ASTM D 638	MPa	35
Strain at break	50 mm/min	ASTM D 638	%	45
Flexural Strength	2 mm/min	ASTM D 790	MPa	68
Flexural Modulus	2 mm/min	ASTM D 790	MPa	2300
Izod Impact Strength Notched	+23°C - thickness 3.2 mm	ISO 180/4A	J/m	280
	0°C - thickness 3.2 mm	ISO 180/4A	J/m	190
	- 20°C - thickness 3.2 mm	ISO 180/4A	J/m	150
	- 40°C - thickness 3.2 mm	ISO 180/4A	J/m	125
	+23°C - thickness 4 mm	ISO 180/1A	kJ/m <sup>2</sup>	20
Charpy Impact Strength, Notched	- 40°C - thickness 4 mm	ISO 180/1A	kJ/m <sup>2</sup>	10
	+23°C	DIN 53453	kJ/m <sup>2</sup>	16
	Unnotched	+23°C	DIN 53453	kJ/m <sup>2</sup>
Unnotched	- 40°C	DIN 53453	kJ/m <sup>2</sup>	NB
Rockwell Hardness	scale R	ISO 2039/2	kJ/m <sup>2</sup>	R110
<b>Thermal</b>				
Vicat Softening Temperature	10 N - 120°C/h	ISO 306/A120	°C	108
	50 N - 120°C/h	ISO 306/B120	°C	104
Deflection temp. under load (annealed)	1.8 MPa - 120°C/h	ASTM D 648	°C	104
Coefficient of linear thermal expansion		ASTM D 696	10 <sup>-5</sup> /°C	9
Thermal Conductivity		ASTM C 177	W/(Km)	0.17
Moulding Shrinkage		ISO 294.4	%	0.4-0.6
<b>Flammability</b>				
Flame behavior	thickness 1.5 mm	UL 94	class	HB
Glow wire test	thickness 3 mm	IEC 60695-2-1	°C	650
<b>Electrical</b>				
Surface resistivity	dry	IEC 60093	ohm	10+14
Volume resistivity	dry	IEC 60093	ohm*cm	10+15
Dielectric strength	dry	IEC 60243	kV/mm	30
Dielectric constant (relative permittivity)	1000 Hz - dry	IEC 60250		3.1
Dissipation factor	1000 Hz - dry	IEC 60250		15*10 <sup>-3</sup>

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## Keys

Packaged product should be protected from the atmospheric agents and stored out of direct sunlight


NB: No Break

/M: Matt - Digit following letter

/M indicates increasing values of mattness

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