



**TPC**

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**HD 5030SA  
High Density polyethylene**

**- Product Description**

- HD-5030SA is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection moulding application requiring very high environmental stress cracking resistance. Articles produced from this grade exhibit excellent impact strength and stiffness, low warpage, high purity and quality controlled organoleptic properties, this grade is particularly intended for the packaging in direct contact with beverages. In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.

**- Typical data**

Property	Test Method	Unit	Typical Value
<b>Physical Properties</b>			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10min	2.0
MFI(190°C / 5.0Kg)			-
Density	ASTM D 1505	gr/cm <sup>3</sup>	0.950
<b>Formulation</b>			
Anti Oxidant			√
Slip Agent			√
UV Stabilizer			
<b>Mechanical Properties</b>			
Flexural Modulus	ASTM D 790	MPa	1100
Tensile Strength at yield	ASTM D 638	MPa	27
Elongation at Break	ASTM D 638	%	1000
Charpy Impact Strength	ASTM D 256	kJ/m <sup>2</sup>	15
Hardness Shore D	ASTM D 2240	-	65
ESCR, F50, 10% Igepal,	ASTM D1894	hr	30
<b>Thermal Properties</b>			
Vicat Softening Temperature	ASTM D 1525	°C	123
Melting Point	ASTM D2117	°C	130