

# TOTAL Polypropylene PPC 1645

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 1645 is a nucleated heterophasic (block) copolymer with a Melt Flow Index of 0.3 g/10'. This resin has a long-term heat stabilization package. It offers a very high stiffness while keeping good impact strength (even at low temperatures) and excellent processability. PPC 1645 has been designed to allow pipe thickness reduction hence converters cost savings.. Polypropylene PPC 1645 can also be used for blow moulding and other extrusion applications.

General Information			
Additive	Heat Stabilizer		
Features	Good Impact Resistance		
	Heat Stabilized		
	High Stiffness		
	Low Temperature Impact Resistance		
Uses	Blow Molding Applications		
	Piping		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Blow Molding		
	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.0	%	ISO 527-2
Flexural Modulus	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	5.0	kJ/m <sup>2</sup>	
23°C	> 50	kJ/m <sup>2</sup>	
Notched Izod Impact Strength			ISO 180
-20°C	9.0	kJ/m <sup>2</sup>	
23°C	> 50	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method

Melting Temperature (DSC)	165	°C	ISO 3146
Oxidation Induction Time (200°C)	> 10	min	EN 728

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

