

Safron® C142-01N

Polypropylene Impact Copolymer

Safrinol (PTY) LTD

Message:

Safron® C142-01N Polypropylene Resin is a nucleated high impact copolymer specially suited for the twin walled sheet market where its good compressive strength, combined with flexibility for easy stamping out of complex shapes, renders it useful for a wide application area. It is also suitable for profile extrusion.

Safron® C142-01N Polypropylene Resin can also be used for the injection moulding of technical parts and thick wall applications requiring exceptional toughness especially at low temperatures.

General Information			
Features	Food Contact Acceptable		
	Good Compressive Strength		
	Good Flexibility		
	Good Toughness		
	High Impact Resistance		
	Impact Copolymer		
	Low Temperature Toughness		
	Nucleated		
Uses	Profiles		
	Sheet		
	Stampable Sheet		
	Thick-walled Parts		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Injection Molding		
	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.4	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, Injection Molded)	26.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	7.0	%	ISO 527-2
Flexural Modulus (Injection Molded)	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C, Injection Molded	5.0	kJ/m ²	

0°C, Injection Molded	7.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	74.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature	71.0	°C	ISO 306/B

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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

