



INVISTA™ Polypropylene P4C5Z-027

INVISTA Polypropylene - Polypropylene Homopolymer

Friday, February 23, 2024

General Information

Product Description

Homopolymer for Injection Molding

Features: Produced without animal derived components or phthalates

Applications: Consumer products, caps, and closures

General

Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
Features	• Homopolymer	• No Animal Derived Components	
Uses	• Caps	• Closures	• Consumer Applications
Agency Ratings	• DMF • FDA 21 CFR 177.1520(c) 1.1a	• USP 88 • USP Class VI	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength (Yield)	5400 psi	37.2 MPa	ASTM D638
Tensile Elongation (Yield)	8.0 %	8.0 %	ASTM D638
Flexural Modulus - Secant	202000 psi	1390 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.40 ft-lb/in	21 J/m	ASTM D256
Gardner Impact (73°F (23°C))	27.0 in-lb	3.05 J	ASTM D5420
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	109	109	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	216 °F	102 °C	ASTM D648
Peak Melting Temperature	320 to 329 °F	160 to 165 °C	ASTM D3418
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

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