

TechResin® 1830

Polypropylene, Impact Copolymer

Product Description

TechResin® 1830 high impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers very good cold temperature impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for TechResin® 1830.

Status	Commercial: Active
Availability	North America
Application	Automotive Parts; Containers; Sports, Leisure & Toys
Market	Automotive; Compounding; Consumer Products; Rigid Packaging
Processing Method	Compounding; Injection Molding
Attribute	Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	18	g/10 min	ASTM D1238
Density, (23 °C, Method A)	0.90	g/cm ³	ISO 1183
Mechanical			
Flexural Modulus, (23 °C)	920	MPa	ISO 178
Tensile Stress at Yield, (23 °C)	19	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C)	6	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	16	kJ/m ²	ISO 179
(-40 °C)	2.9	kJ/m ²	ISO 179
Notched Izod Impact Strength			
(23 °C)	42	kJ/m ²	ISO 180
(-40 °C)	5.0	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	69	°C	ISO 75B-1, -2
(1.80 MPa, Unannealed)	49	°C	ISO 75A-1, -2
Additional Information			
Mold Shrinkage			ISO 294-4

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