

Jampilen EP440N

Polypropylene Copolymer

Jam Polypropylene Company

Message:

Jampilen EP440N is an easy flow heterophasic polypropylene copolymer with improved mechanical properties balance. The product features high stiffness and outstanding impact strength. Jampilen EP440N is specifically designed for injection molding applications. In comparison with conventional copolymers with the same MFR and the same rigidity, Jampilen EP440N, exhibits 20 % higher toughness. Jampilen EP440N is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include luggage, paint pails, buckets, containers, crates, batteries and large toys.

General Information			
Features	Copolymer		
	Good Toughness		
	High Impact Resistance		
	High Stiffness		
	High Strength		
Uses	Automotive Applications		
	Batteries		
	Consumer Applications		
	Containers		
	Crates		
	Luggage		
	Pails		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Shore Hardness	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.0	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	55	J/m	
23°C	120	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 ¹
Accelerated Oven Ageing (150°C)	360	hr	ASTM D3012

NOTE

1. Loading 1 (10 N)

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