

Braskem PP CP 442 XP

Polypropylene Impact Copolymer

Braskem

Message:

Description:
CP 442XP is a medium melt flow rate heterophasic copolymer suitable for injection moulding applications. The product combines good stiffness with excellent impact resistance even at sub-zero temperatures and also provides good surface properties and excellent processability.

Applications:
Automotive parts; Battery cases; Toys; Household Appliances; Crates; Buckets; Compounds.

General Information			
UL YellowCard	E120161-457730		
Features	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Good Surface Finish		
	Impact Copolymer		
	Non-Toxic		
Uses	Automotive Applications		
	Battery Cases		
	Electrical/Electronic Applications		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.895	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	68		ASTM D785
R-Scale	68		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	24.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	7.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1100	MPa	ASTM D790
Injection Molded	1050	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	50	J/m	ASTM D256
23°C, Injection Molded	No Break		ASTM D256
-20°C, Injection Molded	4.4	kJ/m ²	ISO 180
23°C, Injection Molded	34	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	93.0	°C	ASTM D648
0.45 MPa, Unannealed	93.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	52.0	°C	ASTM D648
1.8 MPa, Unannealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/A, ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT