

Prisma® 1410

Polypropylene Random Copolymer

Braskem

Message:

Prisma 1410 is a high melt flow rate random copolymer, designed for injection moulding. This product exhibits exceptional transparency, very good stiffness/impact strength balance and excellent processability.

Applications:

High-transparency parts and packages. This product has excellent processability, high productivity, excellent balance stiffness / impact.

Processing:

Injection Moulding

General Information			
Features	Rigid, good Impact resistance, good Workability, good High liquidity Definition, high Random copolymer		
Uses	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R grade, injection molding	79		ASTM D785
R scale ¹	80		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, injection molding	29.0	MPa	ASTM D638
Yield, injection molding	28.0	MPa	ISO 527-2
Tensile Elongation (Yield, Injection Molded)	14	%	ASTM D638, ISO 527-2
Flexural Modulus - 1% Secant			
Injection Molding	1000	MPa	ASTM D790
Injection Molding	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, injection molding	15	J/m	ASTM D256

23°C, injection molding	50	J/m	ASTM D256
-20°C, injection molding	1.3	kJ/m ²	ISO 180
23°C, injection molding	2.8	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, injection molded	81.0	°C	ASTM D648
0.45 MPa, not annealed	82.0	°C	ISO 75-2/B
1.8 MPa, unannealed, injection molded	50.0	°C	ASTM D648
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	129	°C	ISO 306/A, ASTM D1525 ²
Optical	Nominal Value	Unit	Test Method
Haze			
1000 µm, injection molding	8.0	%	ASTM D1003
1000 µm, injection molding	8.0	%	ISO 13468-1
NOTE			
1.	Injection Molded		
2.	压力1 (10N)		

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