Technical Data Sheet

Percom MCS12 IRON 6-1440

Polypropylene Copolymer

Product Description

Percom MCS12 IRON 6-1440 is a Polypropylene Copolymer material and is typically used in Injection Molding applications. Features include: Copolymer.

Processing Method	Injection Molding
Attribute	Copolymer
Appearance	Translucent
Application	Sanitary Products

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	ISO 1133
Density	0.91	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield	24	MPa	ISO 527-2
Tensile Strain at Break	50	%	ISO 527-2
Flexural Modulus	1180	MPa	ISO 178
Tensile Stress at Break	20	MPa	ISO 527-2
Impact			
Notched Izod Impact Strength, (23 °C, Type 1, Notch A)	6.0	kJ/m²	ISO 180
Hardness			
Shore Hardness, (Shore D)	57		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	130	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	80	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	43	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
UL Information			
Flame Rating	HB		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30 to 60	°C