

Technical Data Sheet

Percom MCS12TR NAT



Polypropylene Copolymer

Product Description

Percom MCS12TR NAT is a Polypropylene Copolymer material and is typically used in Injection Molding applications. Features include: Copolymer.

Regulatory Status

For regulatory compliance information, see *Percom* MCS12TR NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Limited Issue
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
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/cm ³	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/m ²	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	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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