

GPPS Microgranulates 171M

General Purpose Polystyrene
INEOS Styrenics International SA

Message:
171M is a general purpose polystyrene grade and has a high surface to volume rate.

General Information			
Features	Food Contact Acceptable		
	General Purpose		
Uses	General Purpose		
	Masterbatch		
Agency Ratings	EU 10/2011		
RoHS Compliance	Contact Manufacturer		
Forms	Microgranules		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	1.60	cm ³ /10min	ISO 1133
Molding Shrinkage	0.30 to 0.60	%	ISO 294-4
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	55.0	MPa	ISO 527-2/50
Nominal Tensile Strain at Break	2.0	%	ISO 527-2/50
Flexural Stress ¹	61.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	°C	ISO 75-2/A
Vicat Softening Temperature	102	°C	ISO 306/B50
CLTE - Flow (23 to 80°C)	8.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.16	W/m/K	DIN 52612
NOTE			
1.	2.0 mm/min		

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