TotalEnergies

Refining & Chemicals
Polymers

Polypropylene PPH 4022

Technical data sheet
Polypropylene – Homopolymer
Produced in Europe

Description

Polypropylene PPH 4022 is a clarified nucleated homopolymer with a Melt Flow Index of 3 g/10 min.

Polypropylene PPH 4022 is especially suitable for extrusion thermoforming, providing improved rigidity and impact resistance combined with a very high clarity, reduced cycle times and good antistatic properties.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	3
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	37
Elongation at Yield	ISO 527-2	%	9
Tensile modulus	ISO 527-2	MPa	1800
Flexural modulus	ISO 178	MPa	1700
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m²	5
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m²	6
Hardness Rockwell - R-scale	ISO 2039-2		95
Thermal properties			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			93
10N-50°C per hour			153
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			57
0.45 MPa - 120°C per hour			105
Other physical properties			
Density	ISO 1183	g/cm³	0.905
Bulk Density	ISO 1183	g/cm³	0.525

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.polymers.totalenergies.com.

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