

Sasol Polymers PP HMR040

Polypropylene Homopolymer

Sasol Polymers

Message:

Features

Medium flow

High crystallinity

Suitable as a replacement for mineral filled PP grades in injection moulding applications where high stiffness is a requirement

Contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times

Applications

Injection moulding

Outdoor furniture

Caps and closures

Household and domestic articles

Cosmetic and toiletry components

General Information			
Additive	Nucleating agent		
	Unspecified additive		
Features	Nucleated		
	Rigidity, high		
	High crystallization		
	Homopolymer		
	Medium liquidity		
	Compliance of Food Exposure		
Uses	Outdoor furniture		
	Shield		
	Cosmetics		
	Household goods		
	Shell		
Agency Ratings	EC 1935/2004		
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.907	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.5	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4

Vertical flow direction	1.4	%	ISO 294-4
Flow direction	1.4	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	85.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	38.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	6.5	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	102	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	158	°C	ISO 306/A120
--	100	°C	ISO 306/B120
Melting Temperature	165	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Hopper Temperature	40.0 - 60.0	°C	
Rear Temperature	180 - 260	°C	
Middle Temperature	220 - 280	°C	
Front Temperature	240 - 280	°C	
Nozzle Temperature	220 - 280	°C	
Processing (Melt) Temp	220 - 280	°C	
Mold Temperature	20.0 - 60.0	°C	
Injection instructions			
Zone 4: 240 to 280°C			

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