

HMR040

PP

Sasol Chemicals

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	8.5	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	1.4	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	38	MPa	ISO 527
Yield strain	6.5	%	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	1950	MPa	ISO 178
Charpy notched impact strength, +23°C	3	kJ/m ²	ISO 179/1eA
Ball indentation hardness	85	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	167	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	55	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	102	°C	ISO 75-1/-2
Vicat softening temperature, A	158	°C	ISO 306

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	220 - 280	°C	-

Characteristics**Processing**

Injection Molding

Features

High Crystallinity, Nucleated, Homopolymer

Chemical Resistance

Oxidation Resistance

Certifications

Food contact, Food approval FDA 21 CFR

Regional Availability

North America, Asia Pacific, Near East/Africa