

HKR102

PP

Sasol Chemicals

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	3.5	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	1.5	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1600	MPa	ISO 527
Yield stress	34.5	MPa	ISO 527
Yield strain	9	%	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	1550	MPa	ISO 178
Charpy notched impact strength, +23°C	3.5	kJ/m ²	ISO 179/1eA
Ball indentation hardness	72	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	53	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	85	°C	ISO 75-1/-2
Vicat softening temperature, A	154	°C	ISO 306

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

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

Characteristics**Processing**

Injection Molding, Other Extrusion

Features

Homopolymer

Chemical Resistance

Oxidation Resistance

Certifications

Food contact, Food approval FDA 21 CFR

Applications

General Purpose, Monofilament, Packaging

Regional Availability

North America, Asia Pacific, Near East/Africa