

**DuPure® R 50**

PP

Ducor Petrochemicals BV

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	12	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	1550	MPa	ISO 527
Yield stress	35	MPa	ISO 527
Yield strain	8	%	ISO 527
Strain at break	>50	%	ISO 527
Tensile creep modulus, 1000h	380	MPa	ISO 899-1
Charpy impact strength, +23°C	110	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	14	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	3	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	1.5	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	3	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	1.3	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
Ball indentation hardness	78	MPa	ISO 2039-1
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	163	°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	85	°C	ISO 75-1/-2
Vicat softening temperature, A	154	°C	ISO 306
Vicat softening temperature, B	90	°C	ISO 306
<b>Optical properties</b>			
<b>ASTM Data</b>			
Haze	60	%	ASTM D 1003
<b>Other properties</b>			
Density	910	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Features**

Low Odor, Homopolymer

**Certifications**

Food contact, Food approval 1935/2004/EC, Food approval FDA 21 CFR

**Applications**

General Purpose

**Regional Availability**

Europe, Asia Pacific, Near East/Africa