

# Braskem PP PCD 0140BR

Polypropylene Impact Copolymer

Braskem

Message:

PCD 0140BR is a low melt flow rate heterophasic copolymer with high impact resistance. This resin was developed for steel pipe coating extrusion. PCD 0140BR is highly protected against thermal ageing, designed for continuous use at high temperature, and UV stabilized.

Applications:

External three layer extruded polypropylene (topcoating) based coatings for corrosion protection of welded and seamless steel pipes (3LPP). Topcoating and undercoating in thermal insulation coating of steel pipes.

Processing:

Extrusion

General Information			
Additive	UV Stabilizer		
Features	Good Impact Resistance		
	Good Thermal Aging Resistance		
	Good UV Resistance		
	Impact Copolymer		
	Low Flow		
Uses	Coating Applications		
	Pipe Coatings		
Processing Method	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.915	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.75	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, Compression Molded)	66		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	25.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield, Compression Molded	7.0	%	
Break, Compression Molded	> 400	%	
Flexural Modulus - 1% Secant			
Compression Molded	1100	MPa	ASTM D790
Compression Molded	1300	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	147	°C	ISO 306/A, ASTM D1525 <sup>1</sup>
Melting Temperature	163	°C	ISO 11357-3, ASTM D3418
Oxidation Induction Time			
220°C	> 50	min	ISO 11357-6
220°C	> 50	min	ASTM D3895
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
NOTE			

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