

Braskem PP PCD 0140

Polypropylene Impact Copolymer

Braskem

Message:

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

Applications:

Undercoating, solid thermal coating, foam thermal coating

Processing:

Extrusion

General Information			
Features	Good Thermal Aging Resistance		
	High Impact Resistance		
	Impact Copolymer		
	Low Flow		
Uses	Automotive Applications		
	Coating Applications		
	Pipe Coatings		
Processing Method	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.905	g/cm ³	ASTM D792
--	0.900	g/cm ³	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 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	25.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Yield, Compression Molded	5.0	%	ASTM D638
Yield, Compression Molded	7.0	%	ISO 527-2
Break, Compression Molded	> 400	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Compression Molded	1400	MPa	ASTM D790
Compression Molded	1050	MPa	ISO 178

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	146	°C	ISO 306/A, ASTM D1525 ¹
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, IEC 60093
NOTE			
1.	Loading 1 (10 N)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

