

## Braskem PCD 0140BR HECO Polypropylene Heterophasic Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

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 aging, designed for continuous use at high temperatures, and UV stabilized. Its applications include: external three layer extruded polypropylene (topcoating) based coatings for corrosion protection of welded and seamless steel pipes (3LPP); and topcoating and undercoating in thermal insulation coating of steel pipes.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-PCD-0140BR-HECO-Polypropylene-Heterophasic-Copolymer.php](http://www.lookpolymers.com/polymer_Braskem-PCD-0140BR-HECO-Polypropylene-Heterophasic-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.915 g/cc	0.0331 lb/in <sup>3</sup>	ASTM-D792
Oxidative Induction Time (OIT)	>= 50 min @Temperature 220 °C	>= 50 min @Temperature 428 °F	ASTM-D3895
Melt Flow	0.75 g/10 min @Load 2.16 kg, Temperature 230 °C	0.75 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM-D2240
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM-D638
Elongation at Break	>= 400 %	>= 400 %	ASTM-D638
	>= 140 % @Time 1.26e+7 sec	>= 140 % @Time 3500 hour	UV Stability
Elongation at Yield	7.0 %	7.0 %	ASTM-D638
Flexural Modulus, 1% Secant	1100 MPa	160000 psi	ASTM-D790
Taber Abrasion, mg/1000 Cycles	7.0 @Load 1.00 kg	7.0 @Load 2.20 lb	CS-17

Thermal Properties	Metric	English	Comments
Thermal Conductivity	<= 0.220 W/m-K	<= 1.53 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177/C518
Melting Point	163 °C	325 °F	ASTM-D3418
	147 °C	297 °F	

Vicat Softening Point Thermal Properties	Metric @Load 1.02 kg	English @Load 2.25 lb	ASTM-D1525 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM-D257

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