

## Polypropylene PCD 0140BR

### Sub-group:

Heterophasic Copolymer

### Description:

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:

SPC

### Control Property:

	ASTM Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	D 1238	g/10 min	0.75

### Typical Propertiesa:

	ASTM Method	Units	Values
Density	D 792	g/cm <sup>3</sup>	0.915
Flexural Modulus – 1% secant	D 790	MPa	1100
Tensile Strength at Yield	D 638	MPa	25
Tensile Elongation at Yield	D 638	%	7.0
Tensile Elongation at Break	D 638	%	≥ 400
Hardness Shore D/1	D 2240	-	66
Volume Resistivity	D 257	Ω.cm	10 <sup>17</sup>
Thermal Conductivity	C177 or C518	W/m.k	≤ 0,22
Abrasion by Taber Abrader (CS-17 / 1000 g / 1000 cycles)	D 4060	mg	7
OIT at 220°C	D 3895	min	≥ 50
Melting Temperature	D 3418	°C	163
Vicat Softening Temperature at 10 N	D 1525	°C	147
UV Stability after 3500 h - Elongation at break variation - Melt flow Index variation	D 155 – Cycle 1	%	-15 -20

a) Compression molded specimen according to ASTM D 4703.

**Final Remarks:**

1. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
2. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
3. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
4. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 9010-79-1
5. The mentioned values in this report can be changed at any moment without Braskem previous communication.
6. Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body..
7. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.