# Technical Data Sheet **IPETHENE<sup>®</sup> 320** Low Density Polyethylene



## **Product Description**

**IPETHENE® 320** is a low-density polyethylene film grade, produced by high-pressure autoclave technology.

• Features: •	No additives Excellent optical properties Excellent film quality		<ul><li>Excellent draw-down</li><li>Good processability</li></ul>	
• Uses: •	Multilayer and lam films Pouches High clarity films	ination	<ul> <li>High quality film master batches</li> <li>Bubble films</li> <li>Squeezable bottles</li> </ul>	er-
• Processing Methods: •	Blown film extrusion Blow molding Cast film extrusion		<ul><li>Compounding</li><li>Foaming</li><li>Injection Molding</li></ul>	
Properties		Method	Typical Value* Unit	
Physical				
Melt Flow Rate	(190°C/2.16 kg)	ISO 1133	2.0 g/10 min	
Density		ISO 1183-A	0.920 g/cm <sup>3</sup>	
Thermal				
Peak Melting Temperature	By DSC	ISO 11357-3	109 °C	
Vicat Softening Temperature	(10 N)	ISO 306	93 °C	
Mechanical**				
Dart Drop Impact	(F <sub>50</sub> )	ISO 7765-A	170 g	
<b>Tensile Stress at Break</b>	(MD/TD)	ISO 527-3	24/21 MPa	
Tensile Strain at Break	(MD/TD)	ISO 527-3	500/750 %	
Elmendorf Tear Strength	(MD/TD)	ISO 6383-2	450/250 g	
Optical**				
Haze		ASTM D 1003	3 5.5 %	
Gloss	(45°)	ASTM D 245	7 85 %	

\*Typical values; not to be construed as specifications.

\*\* Measured on 50 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, melt temperature ~170°C.

#### **Processing Recommendations**

IPETHENE<sup>®</sup> 320 can be easily processed on conventional extruders at melt temperature range 155-180°C. Due to differences in screw and die head designs, processing conditions should be optimized for each production line. With suitable equipment, it can be drawn down to 25  $\mu$ m films.

### Health, Quality, Regulations and Safety

This product is not classified as dangerous substance. Material safety data sheets, international standards certificates (e.g. ISO 9001) and other regulatory documents are available on our website. This product is not intended for use in medical or pharmaceutical applications and we do not support its use for such applications.

Carmel Olefins Ltd. POB 1468 Haifa 31014 Israel Website: <u>http://www.Carmel-Olefins.co.il</u> Email: <u>techserv@caol.co.il</u>

#### Date: June 2017

The information contained herein is to our knowledge accurate and reliable as of the date of publication. Carmel Olefins extends no warranties and makes no representations as to the accuracy or completeness of the information contained herein and assumes no responsibility regarding the consequences of its use or for any printing errors. Our products are intended for sale to industrial and commercial customers. It is the customer's responsibility to inspect and test our products in order to satisfy himself as to the suitability of the products for the customer's particular purpose. The customer is also responsible for the appropriate, safe and legal use, processing and handling of our products.