

# TECHINICAL DATA SHEET

HIGH DENSITY POLYETHYLENE

## SIRENE HD E 150 RS PLUS



POLYETHYLENE FOR EXTRUSION

### PRODUCT DESCRIPTION

**Sirene HD E 150 RS PLUS** is high density grade polyethylene in pellet form. It has good properties and it can be used in extrusion applications, especially for pipes and contains a good level of carbon black and antioxidant for long term stability and UV resistance.

### COLOR

The product is available in black color.

### PROPERTIES

easy processability  
excellent rigidity  
good homogeneity  
good filtration

### APPLICATIONS

Smooth pipes

### ADDITIVES

Antioxidant, UV stabilized

### TYPICAL PROPERTIES

<b>PHYSICAL</b>	VALUE	U.M.	TEST METHOD
MELT FLOW INDEX (190°/5KG)	0,45-0,60	g/10'	ISO 1133:2005
DENSITY	0,945-0,960	g/cm <sup>3</sup>	ISO 1183
<b>MECHANICAL</b>			
FLEXURAL MODULUS (23°)	>800	Mpa	ISO 178
TENSILE STRENGTH	>20	Mpa	ISO 178
<b>PROCESSING PARAMETERS</b>			
MELT TEMPERATURE	180-210	°C	
<b>OTHER INFORMATIONS</b>			
O.I.T.	> 20 min		EN 728
CARBON BLACK	2% (+-0.5)	gr/cm <sup>3</sup>	IEC 60811

*Reported values have been obtained after several tests in production.  
Specific values for the lots can be only issued through our certificates of analysis under request.*

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## **NOTES**

These are typical property not to be considered as specification limits. In order to obtain optimum product properties and suitability users should determine the condition necessary for the intended application.

## **FURTHER INFORMATIONS**

### **Health and safety**

Resins in our product reach the highest quality standards, but under certain environment some precautions should be considered. Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent mechanical or thermal injury to the eyes.

Molten polymer may degrade if exposed to air during any of the processing and off line-operation. The product of degradation may have therefore unpleasant odour. In higher concentrations, they may cause irritation of mucus membranes. Fabrication areas should be ventilated to carry wat fumes or vapours. Please follow your legislation on the control of emission and pollution prevention.

The resin will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. While burning, the resin contributes high heat and may generate a dense black smoke.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

### **Storage:**

Resins are packed in 25kg bags, octabins or bulk containers protecting it from contamination. If it is stored under certain conditions, i.e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use. Unfavourable storage conditions may also intensify the resin's slight characteristic odour.

Resin should be protected from direct sunlight, temperature above 40° and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time.

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and applications, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. This information does not remove the obligation of the customer to inspect the materiel on arrival and notify us of any faults immediately. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

### **Company information**

For further information regarding the SIRE Company visit the web site [www.sirespa.com](http://www.sirespa.com)

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