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Chemical Brominated Epoxy Polymer

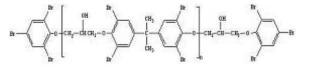
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Formula:  $C_6H_2OBr_3(C_{18}H_{16}O_3Br_4)$ 

 $_{\rm n}{\rm C_9H_8O_2Br_3}$ 

**CAS Number:** 135229-48-0

%Br: 52-54 MW: 15000



### **General & Use:**

F-3100 is a proprietary polymeric flame retardant additive having a molecular weight of 10,000. It is recommended for use in engineering thermoplastics such as PBT, styrenic copolymers and their alloys and polyamides..

F-3100 has a high FR efficiency combined with good processability in both extrusion and injection molding processes.

Particular advantages are high and stable melt flow during injection molding, freedom from metal adhesion problems during lengthy injection molding operations

F-3100 is non-blooming, exhibits high thermal stability, good HDT, impact strength, mechanical properties and UV stability in PBT styrenic copolymers and their alloys.

# For health & safety matters please refer to MSDS

## **Typical Properties:**

Appearance	WHITE-OFF WHITE POWDER		
Bromine Content %	52		
Specific Gravity	1.9		
Molecular Weight	15000		
Softening Range (Mettler C)	180 - 220		
Color APHA Dioxane 10% Soln	100		

#### Thermogravimetric Analysis, (10 °C/minute, air)

Weight loss (%)	΄ <u>'</u> €
2	338
5	340
10	354

#### Solubility

Solvent	SOLUBLE	INSOLUBLE
Dioxane	x	
Chlorobenzene	X	
Chloroform	X	
Acetone	X	
Anisole	X	
Water		X
Methanol		X

Please note that the values indicated do not constitute specification limits. To obtain current specifications, refer to your local Sales Office/Representative or ICL-IP Head Office at address herein.

## Storage and Handling:

F-3100 is stable under normal conditions. Keep containers tightly closed. Avoid bodily contact. Store in cool, well-ventilated area.

Contact FR-info@icl-ip.com

Head Office
ICL-IP
Makleff House
12 Kroitzer St
P.O. Box 180
Beer Sheva 84101
Israel

Tel: +972-8-6297608 Fax: +972-8-6297846

www.icl-ip.com

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Americas:

ICL-IP America INC USA

tel: 1 877 661 4272 fax: 1 314 983 7641 e-mail: frinfo@ameribrom.icl-ip.com

**Europe:** 

ICL-IP Europe BV The Netherlands

tel: 31 70 340 8408 fax: 31 70 399 9035 e-mail: frinfo@eurobrom.icl-ip.com

**PM Chemicals Italy** 

tel: 39 0220487225 fax: 39 022049449 e-mail: <a href="mailto:frinfoit@icl-ip.com">frinfoit@icl-ip.com</a>

Far East:

ICL-CHINA CO. LTD. China

tel: 86 21 - 53863322 fax: 86 21 - 53863336, 53863339 e-mail: frinfo@dsbgchina.icl-ip.com

ICL-IP JAPAN Ltd Japan

tel: 81 3 3552 1611 fax: 81 3 3552 1616 e-mail: frinfo@bromokem.icl-ip.com

ICL ASIA Ltd Hong Kong

tel: 852 2827 7761 fax: 852 2824 1502 e-mail: frinfo@asiabrom.icl-ip.com

**Rest of the World:** 

ICL-IP Sales Office Israel

tel: 972 8 629 7633 fax: 972 8 629 7878 e-mail: frinfois@icl-ip.com

**Head Office:** 

ICL-IP Israel

tel: 972 8 629 7608 fax: 972 8 629 7846 e-mail: frinfo@icl-ip.com

**South America:** 

ICL Brasil Brazil

tel: 55 11 2155-4500 fax: 55 11 2155-4507 e-mail: <a href="mailto:fr.icl-brazil@icl-ip.com">fr.icl-brazil@icl-ip.com</a>

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Member of ICL

Contact FR-info@icl-ip.com

Head Office
ICL-IP
Makleff House
12 Kroitzer St
P.O. Box 180
Beer Sheva 84101
Israel

Tel: +972-8-6297608 Fax: +972-8-6297846

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