EPIGUM OR/87

Thermoplastic Vulcanizate

Crosspolimeri S.p.A.

Message:

EPIGUM OR/87 is a halogen-free thermoplastic elastomer (TPV) study for application at high temperature also in contact with oil.
EPIGUM OR/87 is a high performance thermoplastic vulcanised (TPV) designed to survive long-term exposure to hot oil. Ideal for automotive and electrical applications where there is exposure to heat and/or oil.
It has excellent resistance to many mineral and synthetic motor oils, transmission fluids, and greases.
It is suitable in bondable to polyamides via overmoulding (insert and 2-shot).
Readily recycled both in process and post consumer.

General Information			
Features	Grease Resistant High Heat Resistance Oil Resistant		
Uses	Automotive Applications Electrical/Electronic Applications Overmolding Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.15	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	45		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	> 15.0	MPa	IEC 60811
Tensile Strain (Break)	> 250	%	IEC 60811
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (150°C, 240 hr)	> 13	%	IEC 60811
Change in Tensile Strain at Break in Air (150°C, 240 hr)	> 200	%	IEC 60811
Change in Shore Hardness in Air (Shore A, 150°C, 240 hr)	< 5.0		IEC 60811
Change in Volume in Air (150°C, 240 hr)	< 5.0	%	IEC 60811
Change in Tensile Stress			IEC 60811
121°C, 18 hr, in IRM 902 Oil	> 12	%	
121°C, 18 hr, in IRM 903 Oil	> 12	%	
150°C, 240 hr, in ASTM #2 Oil	> 13	%	
Change in Tensile Strain at Break			IEC 60811

121°C, 18 hr, in IRM 902 Oil	> 200	%	
121°C, 18 hr, in IRM 903 Oil	> 200	%	
150°C, 240 hr, in ASTM #2 Oil	> 200	%	
Change in Shore Hardness			IEC 60811
Shore A, 121°C, 18 hr, in IRM 902 Oil	< 3.0		
Shore A, 121°C, 18 hr, in IRM 903 Oil	< 3.0		
Shore A, 150°C, 240 hr, in ASTM #2 Oil	< 5.0		
Change in Volume			IEC 60811
121°C, 18 hr, in IRM 902 Oil	< 3.0	%	
121°C, 18 hr, in IRM 903 Oil	< 3.0	%	
150°C, 240 hr, in ASTM #2 Oil	< 5.0	%	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Hot Set [1]			IEC 60811
200°C	15	%	
Residual : 200°C	0.0	%	
Service Temperature	-40 to 125	°C	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	20	%	ASTM D2863
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	100 to 120	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 2 Temp.	195	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	220	°C	
Cylinder Zone 5 Temp.	230	°C	
Die Temperature	240	°C	
NOTE			
1.	20 N/cm^2		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT