

NEOPLAST 180 HOFR

Thermoplastic Vulcanizate

Zylog Plastalloys

Message:

Neoplast 180 HOFR is a flame retardant thermoplastic vulcanizate (TPV) compound, based on polyolefin chemistry, suitable for Injection Moulding and Extrusion applications.

Key Features:

Excellent Ozone resistance, Good Flex fatigue, RoHS Compliant, UV Stabilised, V-0 Flame rating

General Information			
Additive	Flame Retardant		
	UV Stabilizer		
Features	Fatigue Resistant		
	Flame Retardant		
	Good UV Resistance		
	Ozone Resistant		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec, 23°C)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	9.32	MPa	ASTM D412
Tensile Strength ² (Break)	12.7	MPa	ASTM D412
Tensile Elongation ³ (Break)	550	%	ASTM D412
Tear Strength ⁴	68.6	kN/m	ASTM D624
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	10	%	ASTM D573
Change in Ultimate Elongation in Air (150°C, 168 hr)	-20	%	ASTM D573
Change in Durometer Hardness in Air (150°C, 168 hr)	2.0		ASTM D573
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	130	°C	SAE J2236
Brittleness Temperature	-55.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity ⁵	3.0E+16	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant	2.50		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	26	%	ASTM D2863

NOTE			
1.	500 mm/min		
2.	500 mm/min		
3.	500 mm/min		
4.	500 mm/min		
5.	500 V		

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