

# Polyrocks 8200FP90V

Polyphenylene Ether

Polyrocks Chemical Co., Ltd

## Message:

High strength halogen-free flame retardant thermoplastic polyolefin wire & cable compound is environmental flame retardant material with phosphorus and nitrogen as flame retardant elements. Carbonize and swelling mechanism play the flame retardant performance. High strength halogen-free flame retardant polyolefin wire & cable compound, which Mechanical properties meet the UL requirements of MPPE/MPPE-PE wire and cable , flammability reach UL1581 VW-1, Matt matte, low temperature resistance, PS/ABS migration resistance, no red phosphorus, and meet the requirements of ROHS, SVHC, PFOS & PFOA, 16P, Halogen, PAHs...etc.

General Information			
Additive	Flame retardancy 2		
Features	High strength		
	Low temperature resistance		
	Halogen-free		
	Flame retardancy		
Uses	Wire and cable applications		
	Wire sheath		
	Insulating material		
Wire Types (UL 1581)	VW-1		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Rough surface polishing		
Forms	Particles		
Physical	Nominal Value	Unit	
Density	1.10	g/cm <sup>3</sup>	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore A)	90		
Elastomers	Nominal Value	Unit	
Tensile Strength	17.0	MPa	
Tensile Elongation (Break)	210	%	
Aging	Nominal Value	Unit	
Change in Tensile Strength in Air (113°C, 168 hr)	-2.0	%	
Change in Ultimate Elongation in Air (113°C, 168 hr)	-10	%	
Thermal	Nominal Value	Unit	
Brittleness Temperature	< -40.0	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (20°C)	7.8E+17	ohms · cm	

Dielectric Strength	28	kV/mm	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (6.0 mm)	V-0		UL 94

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