

OnFlex™ V 3050D-S0097

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-V has the properties of traditional vulcanized rubber, but also has the processability of thermoplastic. Thermoplastic elastomer polymer OnFlex™-V 3000 series products are based on polyolefin phase and are distributed with cross-linked ethylene propylene diene monomer (EPDM) phase. This series of polymer products are specially manufactured to provide the melt strength and processability required for blow molding. In addition, the thermoplastic elastomer polymer OnFlex™-V 3000 series products have excellent coloring (light yellow), good mechanical properties, excellent buckling in a wide temperature range, large hardness range, good resistance to hydrocarbons, heat aging and weather resistance Good performance.

General Information			
Features	General		
Uses	Industrial application Architectural application field Application in Automobile Field General Consumer goods application field		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	8.50	MPa	ISO 37
300% strain	10.0	MPa	ISO 37
Tensile Stress (Break)	16.2	MPa	ISO 37
Tensile Elongation (Break)	600	%	ISO 37
Compression Set			ISO 815
23°C, 72 hr	45	%	ISO 815
70°C, 22 hr	70	%	ISO 815
100°C, 22 hr	75	%	ISO 815
Additional Information	Nominal Value		
General Material Type	Thermoplastic vulcanized rubber (TPV)		
各项属性值是采用注射模制基板测量得出.			
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	

Processing (Melt) Temp	200 - 230	°C
Mold Temperature	30.0 - 60.0	°C
Injection Rate	Fast	

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